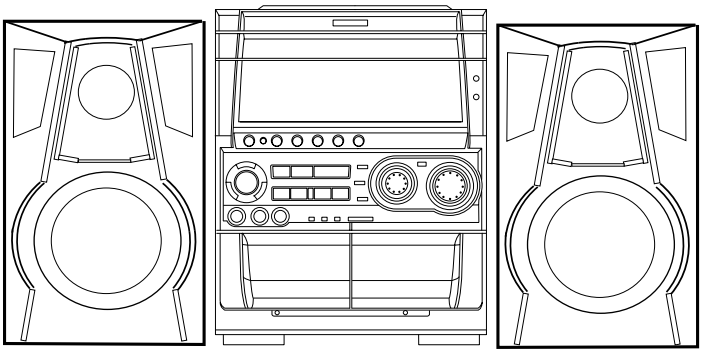
aiwa SERVICE

NSX-AJ70 U
NSX-SZ70 HR,HS
NSX-SZ70E HA



SERVICE MANUAL

COMPACT DISC STEREO
CASSETTE RECEIVER

BASIC TAPE MECHANISM: 2ZM-3MK2 PR4NM
BASIC CD MECHANISM: AZG-1 ZD3RDM

SYSTEM	CD-CASSEIVER	SPEAKER	REMOTE CONTROLLER
NSX-AJ70	CX-NAJ70	SX-WNAJ70	RC-ZAS01
NSX-SZ70	CX-NSZ70	SX-WNSZ70	
NSX-SZ70E	CX-NSZ70E	SX-WNSZ70	

• If requiring information about the CD mechanisim, see Service Manual of AZG-1 (S/M Code No. 09-001-335-3N8).

aiwa

S/M Code No. 09-005-425-3R2

SPECIFICATIONS

<FM Tuner section>

Tuning range	87.5 MHz to 108 MHz
Usable sensitivity(IHF)	13.2 dBf
Antenna terminals	75 ohms (unbalanced)

<AM Tuner section>

Tuning range	530 kHz to 1710 kHz (10 kHz step) 531 kHz to 1602 kHz (9 kHz step)
Usable sensitivity	350 uV/m
Antenna	Loop antenna

<Amplifier section>

Mid-high frequency amplifier<HA,HR,HS>

Power output	Rated: 32 W + 32 W (8 ohms, T.H.D. 1 %,1 kHz) Reference: 40 W + 40 W (8 ohms, T.H.D. 10 %,1 kHz)
Total harmonic distortion	0.1 % (15 W, 1 kHz, 8 ohms, DIN AUDIO)

Mid-high frequency amplifier<U>

Power output	25 W + 25 W (200 Hz -20 kHz, THD less than 1 %, 8 ohms)
Total harmonic distortion	0.1 % (10 W, 1 kHz, 8 ohms, DIN AUDIO)

Low frequency amplifier<HA,HR,HS>

Power output	Rated: 96 W + 96 W (6 ohms, T.H.D. 1 %, 135 Hz)<HA> (6 ohms, T.H.D. 1 %, 130 Hz)<HR,HS> Reference: 120 W + 120 W (6 ohms, T.H.D. 10 %,135 Hz)<HA> (6 ohms, T.H.D. 10 %,130 Hz)<HR,HS>
Total harmonic distortion	0.1 % (45 W,135 Hz,6 ohms,DIN AUDIO)<HA> 0.1 % (45 W,130 Hz,6 ohms,DIN AUDIO)<HR,HS>

Low frequency amplifier<U>

Power output	75 W + 75 W (50 Hz -200 Hz, THD less than 1 %, 6 ohms)
Total harmonic distortion	0.1 % (35 W, 135 Hz, 6 ohms, DIN AUDIO)

Inputs	VIDEO/AUX : 316 mV (adjustable) MD: 316 mV (adjustable) MIC: 1.8 mV (10 kohms)<U,HA> MIC1,MIC2: 1.0 mV (10 kohms)<HR,HS>
Outputs	SPEAKERS HIGH FREQ : accept speakers of 8 ohms or more SPEAKERS LOW FREQ : accept speakers of 6 ohms or more SURROUND SPEAKERS : accept speakers of 8 to 16 ohms LINE OUT: 210 mV PHONES (stereo jack) : accepts headphones of 32 ohms or more

<Cassette deck section>

Track format	4 tracks, 2 channels stereo
Frequency response	CrO2 tape: 50 Hz – 16000 Hz Normal tape: 50 Hz – 15000 Hz
Recording system	AC bias
Heads	Deck 1: Playback head x 1 Deck 2: Recording/Playback head x 1, erase head x 1

<Compact disc player section>

Laser	Semiconductor laser (λ =780 nm)
D-A converter	1 bit dual
Signal-to-noise ratio	85 dB (1 kHz, 0 dB)
Harmonic distortion	0.05 % (1 kHz, 0 dB)
Wow and flutter	Unmeasurable

<Speaker system SX–WNSZ70/WNAJ70>

Speaker system	3 way, Built-in subwoofer(magnetic shielded type
Speaker units	Subwoofer : 160 mm (6 $^{3}/_{8}$ in.) cone type Full range: 100 mm (4 in.) cone type Super Tweeter : 20 mm ($^{13}/_{16}$ in.) ceramic type
Impedance	6 ohms / 8 ohms
Sensitivity	87 dB/W/m
Dimensions (W x H x D)	240 x 324 x 281 mm (9 $^{1}/_{2}$ x 12 $^{7}/_{8}$ x 11 $^{1}/_{4}$ in.)
Weight	5.0 kg (11 lbs)<U,HA>, 5.2 kg<HR,HS>

<General>

Power requirements	120 V AC, 60 Hz<U> 120 V/220-230 V/240 V AC switchable, 50/60Hz<HA,HR> 220 V AC, 50/60 Hz<HS>
Power consumption	135 W<U>, 200W<HA,HR,HS>
Power consumption in standby mode	If the power-economizing mode is ECO OFF: 21W<HA>,22 W<U>, 26 W<HR,HS> If the power-economizing mode is ECO ON or ECO AUTO: 0.9 W
Dimensions (W x H x D)	260 x 330 x 360 mm (10 $^{1}/_{4}$ x 13 x 14 $^{1}/_{4}$ in.)<U> 260 x 330 x 395 mm<HA,HR>
Weight	8.4 kg (18 lbs 8 oz.)<U>, 9.5 kg<HA,HR,HS>

- Design and specifications are subject to change without notice.
- The word "BBE"and the "BBE symbol" are trademarks of BBE Sound, Inc.
  Under license from BBE Sound,Inc.

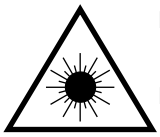
ACCESSORIES / PACKAGE LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF7-901-010		IB,H(ECA)M<HR>
1	8A-NF7-902-010		IB,LH(ESP)M<HA>
1	8A-NF7-913-010		IB,U (ESF) I<U>
2	87-006-225-010		AM LOOP ANT NC2<U,HA,HS>
3	87-006-226-010		AM LOOPANT C0<HR>
4	87-043-115-010		ANT,FEEDER FM
⚠ 5	87-A91-017-010		PLUG,CONVERSION JT-0476<U,HR,HS>
6	8Z-NF8-702-010		RC UNIT,RC-ZAS01

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!!
WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynlig laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!
Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saataa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!
Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION
Use of controls or adjustments or performance of procedures other than those specified herin may result in hazardous radiation exposure.

ATTENTION
L'utillisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL
Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.

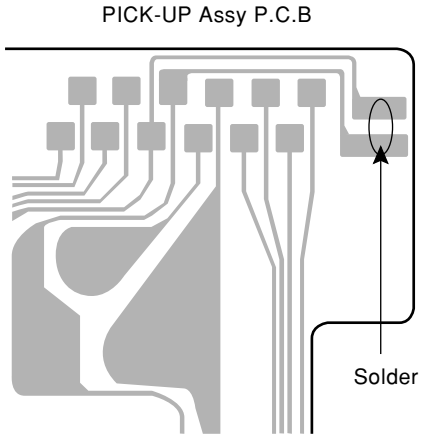
CLASS 1	LASER PRODUCT
KLASSE 1	LASER PRODUKT
LUOKAN 1	LASER LAITE
KLASS 1	LASER APPARAT

Precaution to replace Optical block

(KSS-213F)

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

1) After the connection, remove solder shown in right figure.



NOTE ON BEFORE STARTING REPAIR

1. Forced discharge of electrolytic capacitor of power supply block

When repair is going to be attempted in the set that uses relay circuit in the power supply block, electric potential is kept charged across the electrolytic capacitors (C101, 102) even though AC power cord is removed. If repair is attempted in this condition, secondary defect can occur.
In order to prevent the secondary trouble, perform the following measures before starting repair work.

Discharge procedure

① Remove the AC power cord.
② Connect a discharging resistor at an end of lead wire that has clips at both ends. Connect the other end of the lead wire to metal chassis.
③ Contact the other end of the discharging resistor to the positive (+) side (+VH) of C101. (For two seconds)
④ Contact the same end of the discharging resistor as step ③ to the negative (-) side (-VH) of C102 in the same way. (For two seconds)
⑤ Check that voltage across C101 and C102 has decreased to 1 V or less using a multimeter or an oscilloscope.

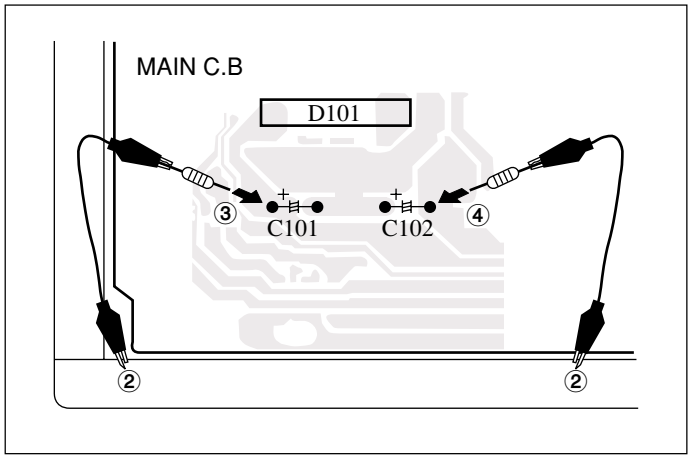


Fig-1

Select a discharging resistor referring to the following table.

Charging voltage (V) (C101, 102)	Discharging resistor (Ω)	Rated power (W)	Parts number
25-48	100	3	87-A00-247-090
49-140	220	5	87-A00-232-090

Note: The reference numbers (C101, C102) of the electrolytic capacitors can change depending on the models. Be sure to check the reference numbers of the charging capacitors on schematic diagram before starting the discharging work.

2. Check items before exchanging the MICROCOMPUTER

Be sure to check the following items before exchanging the MICROCOMPUTER. Exchange the MICROCOMPUTER after confirming that the MICROCOMPUTER is surely defective.

2-1. Regarding the HOLD terminal of the MICROCOMPUTER

When the HOLD terminal (INPUT) of the MICROCOMPUTER is "H", the MICROCOMPUTER is judged to be operating correctly. When this terminal is "L", the main power cannot be turned on. Therefore, be sure to check the terminal voltage of the HOLD terminal before exchange.
When the MICROCOMPUTER is not defective, the HOLD terminal can also go "L" when the POWER AMPLIFIER has any abnormalities that triggers the abnormality detection circuit on the MAIN C. B. that sets the HOLD terminal to "L".

- Good or no good judgement of the MICROCOMPUTER

① Turn on the AC main power.
② Confirm that the main power is turned on and the HOLD terminal of the MICROCOMPUTER keeps the "H" level or not.
③ When the HOLD terminal is "L" level, the abnormality detection circuit is judged to be working correctly and the MICROCOMPUTER is judged to be good.

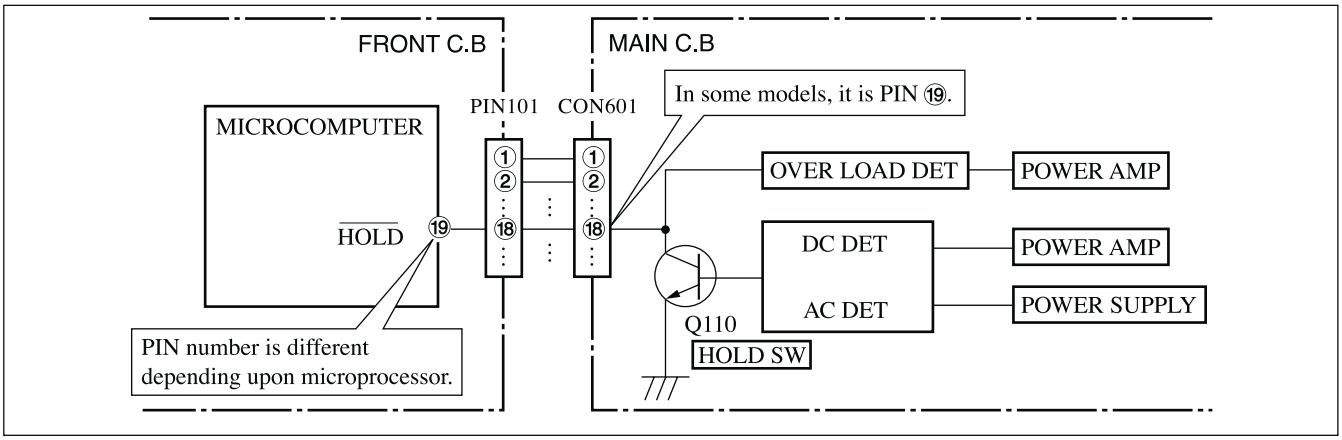


Fig-2-1

In such a case, check also if the POWER AMPLIFIER circuit or power supply circuit has any abnormalities or not.

2-2. Regarding reset

There are cases that the machine does not work correctly because the MICROCOMPUTER is not reset even though the AC power cord is re-inserted, or the software reset (pressing the STOP key + POWER key) is performed.
When the above described phenomenon occurs, it can lead to wrong judgement as if the MICROCOMPUTER is defective and to exchange the MICROCOMPUTER. In such a case, perform the forced-reset by the following procedure and check good or no good of the MICROCOMPUTER.

① Remove the AC power cord.

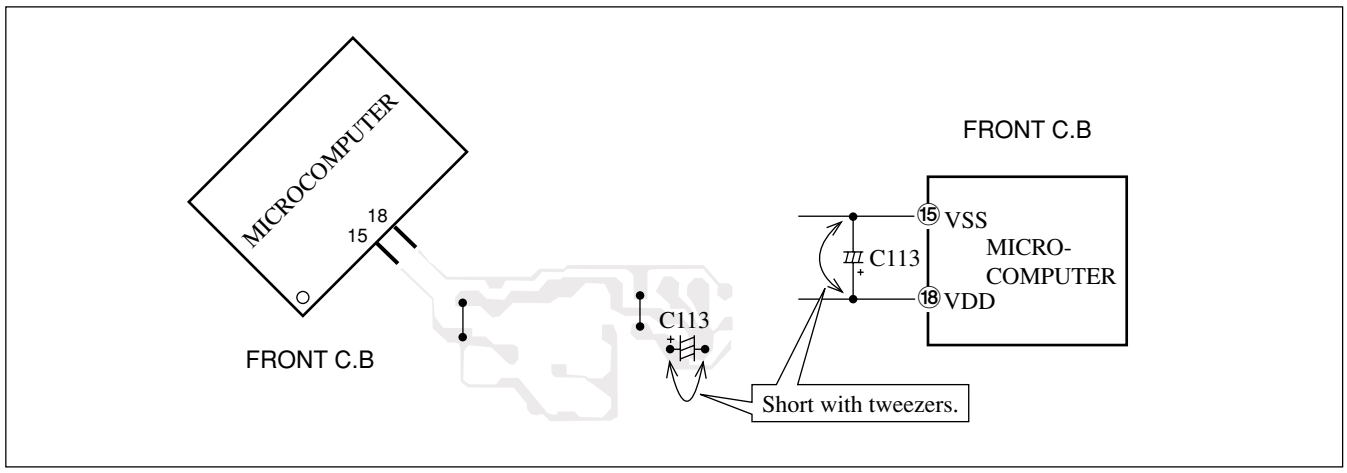


Fig-2-2

② Short both ends of the electrolytic capacitor C113 that is connected to VDD of the MICROCOMPUTER with tweezers.
③ Connect the AC power cord again. If the MICROCOMPUTER returns to the normal operation, the MICROCOMPUTER is good.

Note: The reference number or MICROCOMPUTER pin number of transistor (Q110) and electrolytic capacitor (C113) can change depending on the models. Be sure to check the reference numbers on schematic diagram before starting the discharging work.

2-3. Confirmation of soldering state of MICROCOMPUTER

Check the soldering state of the MICROCOMPUTER in addition to the above described procedures. Be sure to exchange the MICROCOMPUTER after surely confirming that the trouble is not caused by poor soldering but the MICROCOMPUTER itself.

ELETRICAL MAIN PARTS LIST

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
IC			
	8A-NF6-610-030		C-IC,LC876564V-5P35
	87-A21-018-040		C-IC,M65849BFP631D<HR>
	87-A21-418-010		IC,STK490-340<EXCEPT U>
	87-A21-397-010		IC,STK490-070<EXCEPT U>
	87-A21-398-010		IC,STK490-110<U>
	87-A21-396-010		IC,STK490-040<U>
	87-A21-482-010		IC,RPM6938-H4
	87-A20-783-040		C-IC,BA7762AFS
	87-A21-577-040		C-IC,M61506FP
	87-A21-021-040		C-IC,BU2099FV
	87-070-289-040		IC,BU 2092F
	87-A21-452-040		C-IC,BD3876KS2
	87-A21-051-040		C-IC,BU9990-03FS
	87-A21-560-010		IC,LA1844L-A<HS>
	87-A21-415-010		IC,LA1843<EXCEPT HS>
	87-070-127-110		IC,LC72131 D
	87-020-454-010		IC,DN6851
TRANSISTOR			
	87-026-245-080		TR,DTC114ES
	87-026-609-080		TR,KTA1266GR
	87-A30-198-080		TR,KTC3199GR
	87-026-610-080		TR,KTC3198GR
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
	87-A30-318-080		TR,CSA952K
	89-213-702-010		TR,2SB1370 (1.8W)
	87-A30-087-080		C-FET,2SK2158
	87-A30-107-070		C-TR,CMBT5401
	87-A30-073-080		C-TR,RT1N 141C
	87-A30-074-080		C-TR,RT1P 141C
	87-A30-269-040		C-FET,2SJ461-T1
	87-A30-106-070		C-TR,CMBT5551
	87-A30-105-080		C-TR,RT1P 441C
	87-A30-086-040		C-TR,CSD1306E
	87-A30-329-080		TR,CD1585BC
	89-327-143-080		TR,2SC2714 (0.1W)
	87-A30-072-080		C-TR,RT1P 144C
	87-A30-234-080		TR,CSC4115BC
	89-503-602-080		C-FET,2SK360E<HR>
	87-026-463-080		TR,2SA933SRS
DIODE			
	87-A40-548-090		DIODE,D3SBA20
	87-017-654-060		DIODE,GBU6J
	87-A40-547-090		DIODE,D5SBA20
	87-020-465-080		DIODE,1SS133
	87-A40-553-080		DIODE,1N4003 LES
	87-A40-781-080		ZENER,UZ36BSA
	87-A40-764-080		ZENER,UZ10BSC
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-270-080		C-DIODE,MC2838
	87-A40-269-080		C-DIODE,MC2836
	87-A40-768-080		ZENER,UZ16BSA
	87-A40-752-080		ZENER,UZ6.2BSC
	87-A40-802-080		ZENER,UZ5.1BSC
	87-017-978-080		DIODE,1N4003
	87-A40-745-080		ZENER,UZ4.7BSA
	87-A40-748-080		ZENER,UZ5.6BSA
	87-017-149-080		ZENER,HZS6A2L
	87-A40-618-080		VARI-CAP,SVC348(S/T)<HR>
MAIN C.B			
C3	87-012-368-080		C-CAP,S 0.1-50 F
C4	87-012-368-080		C-CAP,S 0.1-50 F
C21	87-016-658-000		CAP,E 4700-35 M SMG
C22	87-016-658-000		CAP,E 4700-35 M SMG
C25	87-010-406-080		CAP, ELECT 22-25V<U>
C25	87-010-405-080		CAP,E 10-50 M 11L SME<HA,HR,HS>
C26	87-010-406-080		CAP, ELECT 22-50V
C27	87-010-405-080		CAP, ELECT 10-25V<HS>
C27	87-010-406-080		CAP, ELECT 22-50V<U,HA,HR>
C28	87-010-406-080		CAP, ELECT 10-50V
C31	87-010-263-080		CAP, ELECT 100-10V
C32	87-010-197-080		CAP, CHIP 0.01 DM
C33	87-010-263-080		CAP, ELECT 100-10V
C34	87-010-384-080		CAP, ELECT 100-25V
C35	87-010-406-080		CAP, ELECT 22-50V
C36	87-010-381-080		CAP, ELECT 330-16V
C38	87-010-394-080		CAP, ELECT 220-35V
C39	87-010-394-080		CAP, ELECT 220-35V
C40	87-010-197-080		CAP, CHIP 0.01 DM
C60	87-010-403-080		CAP, ELECT 3.3-50V
C80	87-010-401-080		CAP, ELECT 1-50V<HA,HR>
C81	87-010-263-080		CAP, ELECT 100-10V<HA,HR>
C81	87-010-260-080		CAP, ELECT 47-25V<HS>
C82	87-010-380-080		CAP, ELECT 47-16V<HA,HR>
C104	87-010-196-080		CHIP CAPACITOR,0.1-25
C105	87-010-196-080		CHIP CAPACITOR,0.1-25
C111	87-010-545-080		CAP, ELECT 0.22-50V
C112	87-010-545-080		CAP, ELECT 0.22-50V
C113	87-010-545-080		CAP, ELECT 0.22-50V
C114	87-010-545-080		CAP, ELECT 0.22-50V
C115	87-010-546-080		CAP, ELECT 0.33-50V
C116	87-010-546-080		CAP, ELECT 0.33-50V
C121	87-010-545-080		CAP, ELECT 0.22-50V
C122	87-010-545-080		CAP, ELECT 0.22-50V
C171	87-012-368-080		C-CAP,S 0.1-50 F
C172	87-012-368-080		C-CAP,S 0.1-50 F
C173	87-012-368-080		C-CAP,S 0.1-50 F
C174	87-012-368-080		C-CAP,S 0.1-50 F
C301	87-010-318-080		C-CAP,S 47P-50 CH
C302	87-010-318-080		C-CAP,S 47P-50 CH
C303	87-012-157-080		C-CAP,S 330P-50 CH
C304	87-012-157-080		C-CAP,S 330P-50 CH
C305	87-012-157-080		C-CAP,S 330P-50 CH
C306	87-012-157-080		C-CAP,S 330P-50 CH
C307	87-010-196-080		CHIP CAPACITOR,0.1-25
C309	87-010-196-080		CHIP CAPACITOR,0.1-25
C310	87-010-196-080		CHIP CAPACITOR,0.1-25
C311	87-010-198-080		CAP, CHIP 0.022
C312	87-010-198-080		CAP, CHIP 0.022
C313	87-010-179-080		CAP,CHIP S B1200P
C314	87-010-179-080		CAP,CHIP S B1200P
C315	87-010-179-080		CAP,CHIP S B1200P
C316	87-010-179-080		CAP,CHIP S B1200P
C321	87-012-142-080		CAP, S 0.33-16
C322	87-012-142-080		CAP, S 0.33-16
C324	87-010-260-080		CAP, ELECT 47-25V
C325	87-010-370-080		CAP,E 330-6.3 SME
C327	87-010-404-080		CAP, ELECT 4.7-50V
C328	87-010-404-080		CAP, ELECT 4.7-50V
C332	87-010-196-080		CHIP CAPACITOR,0.1-25
C335	87-010-401-080		CAP, ELECT 1-50V
C336	87-010-401-080		CAP, ELECT 1-50V
C337	87-010-196-080		CHIP CAPACITOR,0.1-25
C339	87-010-196-080		CHIP CAPACITOR,0.1-25
C340	87-010-196-080		CHIP CAPACITOR,0.1-25
C351	87-012-140-080		CAP 470P
C352	87-012-140-080		CAP 470P
C354	87-010-175-080		CAP 560P
C355	87-010-178-080		CHIP CAP 1000P
C356	87-010-260-080		CAP, ELECT 47-25V
C357	87-010-197-080		CAP, CHIP 0.01 DM
C358	87-010-183-080		C-CAP,S 2700P-50 B
C359	87-010-183-080		C-CAP,S 2700P-50 B

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C360	87-010-183-080		C-CAP,S 2700P-50 B
C363	87-A10-292-080		CAP,M 5600P-50 J
C370	87-010-196-080		CHIP CAPACITOR,0.1-25
C373	87-016-083-080		C-CAP,S 0.15-16 RK
C374	87-016-083-080		C-CAP,S 0.15-16 RK
C378	87-010-196-080		CHIP CAPACITOR,0.1-25
C379	87-010-382-080		CAP, ELECT 22-25V
C380	87-010-382-080		CAP, ELECT 22-25V
C381	87-010-197-080		CAP, CHIP 0.01 DM
C382	87-010-312-080		C-CAP,S 15P-50 CH
C383	87-010-197-080		CAP, CHIP 0.01 DM
C384	87-010-402-080		CAP, ELECT 2.2-50V
C386	87-010-196-080		CHIP CAPACITOR,0.1-25
C387	87-012-145-080		CAP, CHIP S 270P CH
C388	87-012-156-080		C-CAP,S 220P-50 CH
C391	87-010-319-080		C-CAP,S 56P-50 CH
C392	87-010-319-080		C-CAP,S 56P-50 CH
C393	87-010-319-080		C-CAP,S 56P-50 CH
C394	87-010-319-080		C-CAP,S 56P-50 CH
C501	87-010-263-080		CAP,E 100-10 M 11L SME<HR,HS>
C502	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<HR,HS>
C503	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB<HR,HS>
C504	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB<HR,HS>
C505	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB<HR,HS>
C506	87-010-184-080		C-CAP,S 3300P-50 K B C2012<HR,HS>
C507	87-010-177-080		C-CAP,S 820P-50 J SL C2012<HR,HS>
C508	87-016-081-080		C-CAP,S 0.1-16 K R GRM<HR>
C509	87-016-081-080		C-CAP,S 0.1-16 K R GRM<HR>
C510	87-010-184-080		C-CAP,S 3300P-50 K B C2012<HR,HS>
C511	87-010-177-080		C-CAP,S 820P-50 J SL C2012<HR,HS>
C512	87-012-393-080		C-CAP,S 0.22-16 K W5R CM/CB<HR,HS>
C513	87-010-544-080		CAP,E 0.1-50 M 11L SME<HR,HS>
C514	87-010-374-080		CAP,E 47-10 M 11L SME<HR,HS>
C515	87-010-401-080		CAP,E 1-50 M 11L SME<HR,HS>
C516	87-010-401-080		CAP,E 1-50 M 11L SME<HR,HS>
C517	87-010-183-080		C-CAP,S 2700P-50 K B GRM<HR,HS>
C518	87-010-183-080		C-CAP,S 2700P-50 K B GRM<HR,HS>
C531	87-010-405-080		CAP,E 10-50 M 11L SME<HR,HS>
C532	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<HR,HS>
C533	87-010-196-080		C-CAP,S 0.1-25 Z F C2012<HR,HS>
C534	87-012-156-080		C-CAP,S 220P-50 J CH GRM<HR>
C535	87-010-178-080		C-CAP,S 1000P-50 K B C2012<HR,HS>
C536	87-010-196-080		CHIP CAPACITOR,0.1-25
C538	87-010-318-080		C-CAP,S 47P-50 J CH GRM<HR,HS>
C541	87-010-178-080		C-CAP,S 1000P-50 K B C2012<HR,HS>
C609	87-010-181-080		CAP,CHIP S 1800P
C610	87-010-181-080		CAP,CHIP S 1800P
C611	87-010-956-080		CHIP-CAP,S 0.068-25B
C612	87-016-369-080		C-CAP,S 0.033-25 B K
C613	87-010-197-080		CAP, CHIP 0.01 DM
C614	87-016-669-080		C-CAP,S 0.1-25 K B
C616	87-010-184-080		CHIP CAPACITOR 3300P(K)
C617	87-012-369-080		C-CAP,S 0.047-50F
C618	87-010-401-080		CAP, ELECT 1-50V
C619	87-010-263-080		CAP, ELECT 100-10V
C620	87-016-669-080		C-CAP,S 0.1-25 K B
C621	87-010-197-080		CAP, CHIP 0.01 DM
C623	87-010-401-080		CAP, ELECT 1-50V
C624	87-010-401-080		CAP, ELECT 1-50V
C626	87-A10-354-080		C-CAP,S 0.047-50 K B
C627	87-010-400-080		CAP, ELECT 0.47-50V
C628	87-010-400-080		CAP, ELECT 0.47-50V
C629	87-A10-354-080		C-CAP,S 0.047-50 K B
C630	87-010-383-080		CAP, ELECT 33-25V
C631	87-010-185-080		C-CAP,S 3900P-50 B
C632	87-010-185-080		C-CAP,S 3900P-50 B
C634	87-010-196-080		CHIP CAPACITOR,0.1-25
C635	87-A10-307-080		CAP,M 0.1-50 J
C636	87-A10-307-080		CAP,M 0.1-50 J
C637	87-A10-307-080		CAP,M 0.1-50 J
C638	87-A10-307-080		CAP,M 0.1-50 J
C639	87-010-405-080		CAP, ELECT 10-50V
C641	87-010-401-080		CAP, ELECT 1-50V
C642	87-010-401-080		CAP, ELECT 1-50V
C643	87-010-196-080		CHIP CAPACITOR,0.1-25
C644	87-010-401-080		CAP, ELECT 1-50V
C671	87-010-322-080		C-CAP,S 100P-50 CH
C672	87-010-322-080		C-CAP,S 100P-50 CH
C673	87-010-197-080		CAP, CHIP 0.01 DM
C679	87-010-196-080		CHIP CAPACITOR,0.1-25
C680	87-010-197-080		CAP, CHIP 0.01 DM
C682	87-010-196-080		CHIP CAPACITOR,0.1-25
C771	87-010-263-080		CAP, ELECT 100-10V
C772	87-010-197-080		CAP, CHIP 0.01 DM
C773	87-010-184-080		CHIP CAPACITOR 3300P(K)<U,HS>
C774	87-010-184-080		CHIP CAPACITOR 3300P(K)<U,HS>
C779	87-010-426-080		C-CAP,S 0.012-25 K B<U,HA,HS>
C779	87-010-182-080		C-CAP,S 2200P-50 K B C2012<HR>
C780	87-010-426-080		C-CAP,S 0.012-25 K B<U,HA,HS>
C780	87-010-182-080		C-CAP,S 2200P-50 K B C2012<HR>
C782	87-010-197-080		CAP, CHIP 0.01 DM
C783	87-010-197-080		CAP, CHIP 0.01 DM
C784	87-010-197-080		CAP, CHIP 0.01 DM
C785	87-010-197-080		CAP, CHIP 0.01 DM
C786	87-010-197-080		CAP, CHIP 0.01 DM
C788	87-010-149-080		C-CAP,S 5P-50 CH
C789	87-A10-592-080		C-CAP,S 0.015-50 J B
C790	87-A10-592-080		C-CAP,S 0.015-50 J B
C791	87-010-196-080		CHIP CAPACITOR,0.1-25
C792	87-010-197-080		CAP, CHIP 0.01 DM
C793	87-010-404-080		CAP, ELECT 4.7-50V
C795	87-010-197-080		CAP, CHIP 0.01 DM
C796	87-010-197-080		CAP, CHIP 0.01 DM
C797	87-010-405-080		CAP, ELECT 10-50V
C798	87-010-197-080		CAP, CHIP 0.01 DM
C799	87-010-407-080		CAP, ELECT 33-50V
C800	87-012-369-080		C-CAP,S 0.047-50F
C801	87-010-403-080		CAP, ELECT 3.3-50V
C802	87-012-369-080		C-CAP,S 0.047-50F
C803	87-010-198-080		CAP, CHIP 0.022
C804	87-010-263-080		CAP, ELECT 100-10V
C806	87-010-401-040		CAP,E 1-50 SME
C807	87-010-400-080		CAP, ELECT 0.47-50V
C808	87-010-401-080		CAP, ELECT 1-50V
C809	87-010-401-080		CAP, ELECT 1-50V
C810	87-010-263-040		CAP,E 100-10
C810	87-010-196-080		CHIP CAPACITOR,0.1-25
C811	87-010-403-080		CAP, ELECT 3.3-50V
C811	87-010-545-040		CAP,E 0.22-50 SME
C812	87-010-403-080		CAP, ELECT 3.3-50V
C812	87-010-405-040		CAP,E 10-50
C814	87-010-197-080		CAP, CHIP 0.01 DM
C815	87-010-403-080		CAP, ELECT 3.3-50V<U,HA,HS>
C815	87-010-400-080		CAP, ELECT 0.47-50V<HR>
C816	87-010-403-080		CAP, ELECT 3.3-50V<U,HA,HS>
C816	87-010-400-080		CAP, ELECT 0.47-50V<HR>
C819	87-010-179-080		CAP,CHIP S B1200P<U,HS>
C820	87-010-179-080		CAP,CHIP S B1200P<U,HS>
C821	87-010-405-080		CAP, ELECT 10-50V
C823	87-010-177-080		C-CAP,S 820P-50 SL
C824	87-010-405-080		CAP, ELECT 10-50V
C825	87-010-596-080		CAP, S 0.047-16
C842	87-010-197-080		CAP, CHIP 0.01 DM
C843	87-010-190-080		S CHIP F 0.01
C844	87-010-197-080		CAP, CHIP 0.01 DM
C845	87-010-190-080		S CHIP F 0.01
C846	87-010-190-080		S CHIP F 0.01
C847	87-010-190-080		S CHIP F 0.01
C848	87-010-190-080		S CHIP F 0.01
C849	87-010-190-080		S CHIP F 0.01

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C850	87-010-260-080		CAP, ELECT 47-25V
C851	87-010-197-080		CAP, CHIP 0.01 DM
C852	87-010-197-080		CAP, CHIP 0.01 DM
C853	87-010-197-080		CAP, CHIP 0.01 DM
C858	87-010-196-080		CHIP CAPACITOR,0.1-25
C859	87-010-196-080		CHIP CAPACITOR,0.1-25
C860	87-010-197-080		CAP, CHIP 0.01 DM
C940	87-010-197-080		CAP, CHIP 0.01 DM<HR>
C941	87-010-314-080		C-CAP,S 22P-50 J CH GRM<HR>
C943	87-010-197-080		C-CAP,S 0.01-25 K B C2012<HR>
C945	87-010-197-080		C-CAP,S 0.01-25 K B C2012<HR>
C946	87-010-971-080		C-CAP,S 4700P-50 J B<HR>
C947	87-010-197-080		C-CAP,S 0.01-25 K B C2012<HR>
C948	87-010-148-080		C-CAP,S 4P-50 J CH GRM<HR>
C952	87-010-197-080		C-CAP,S 0.01-25 K B C2012<HR>
C953	87-010-197-080		C-CAP,S 0.01-25 K B C2012<HR>
C954	87-010-400-080		CAP,E 0.47-50 M 11L SME<HR>
C956	87-010-263-080		CAP,E 100-10 M 11L SME<HR>
C959	87-010-196-080		CHIP CAPACITOR,0.1-25
C960	87-010-196-080		CHIP CAPACITOR,0.1-25<U,HA,HS>
C961	87-010-152-080		C-CAP,S 8P-50 CH<U,HA,HS>
C962	87-010-401-080		CAP,E 1-50 M 11L SME<HR>
C963	87-015-785-080		CHIP CAPACITOR, 0.1FZ-25Z
C964	87-010-854-080		C-CAP,S 560P-50 J CH<HR>
C971	87-010-381-080		CAP, ELECT 330-16V
C972	87-010-404-080		CAP, ELECT 4.7-50V
C973	87-010-197-080		CAP, CHIP 0.01 DM
C974	87-010-197-080		CAP, CHIP 0.01 DM
C979	87-010-322-080		C-CAP,S 100P-50 CH
C981	87-010-260-080		CAP, ELECT 47-25V
C982	87-010-196-080		CHIP CAPACITOR,0.1-25
C983	87-010-197-080		CAP, CHIP 0.01 DM
C984	87-010-197-080		CAP, CHIP 0.01 DM
C987	87-010-197-080		CAP, CHIP 0.01 DM
C989	87-010-197-080		CAP, CHIP 0.01 DM<HR>
C991	87-010-312-080		C-CAP,S 15P-50 CH
C992	87-010-312-080		C-CAP,S 15P-50 CH
C993	87-010-178-080		CHIP CAP 1000P
C995	87-010-178-080		CHIP CAP 1000P
C997	87-010-196-080		CHIP CAPACITOR,0.1-25
C998	87-010-260-080		CAP, ELECT 47-25V
C999	87-A11-155-080		CAP,TC U 0.01-16 Z F
CF831	87-008-261-010		FILTER, SFE10.7MA5-A
CF832	87-008-261-010		FILTER, SFE10.7MA5-A
CN1	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN91	87-A60-109-010		CONN,2P V S2M-2W<HA,HR,HS>
CN101	87-A60-996-010		CONN,13P V BLK TAC-L13X-A3
CN301	87-A60-620-010		CONN,3P V 2MM JMT
CN351	87-A60-625-010		CONN,8P V 2MM JMT
CN601	87-099-719-010		CONN,30P TYK-B(X)
CN602	87-099-194-010		CONN,6P 6216V
CNA1	8A-NF8-653-010		CONN ASSY,9P TID-A(480)
CNA2	8A-NF6-630-010		CONN ASSY,3P (VM) ANF-6<HA,HR,HS>
FB501	87-008-372-080		FLTR,EMI BL01 RN1
FC602	85-NF5-617-010		CABLE,FFC 6P-1.25
FFE831	A8-8ZA-190-030		8ZA-1 FEUNM<HA,HR,HS>
FFE831	A8-8ZA-193-070		8ZA-1 YFEUNC<U>
J101	87-A60-483-010		JACK,DIA6.3 BLK ST W/S KM
J102	87-A60-238-010		TERMINAL,SP 4P (MSC)
J601	87-A60-885-010		JACK,PIN 6P R/W MSC
J831	87-A60-202-010		TERMINAL,ANT 4P MSP-154V-02
J940	81-754-629-010		CONNECTOR X11 2P (UL)<HR>
L101	87-A50-610-010		COIL,1UH K(MDEC)
L102	87-A50-610-010		COIL,1UH K(MDEC)
L301	87-A50-049-010		COIL,TRAP 85K(COI)
L302	87-A50-049-010		COIL,TRAP 85K(COI)
L351	87-007-342-010		COIL,OSC 85K BIAS
L801	87-A50-540-010		COIL,FM DET(TOK)<U,HA,HR>
L801	87-A50-608-010		COIL,FM DET-N(TOK)<HS>
L802	87-A91-551-010		FLTR,PCFJZH-450 L(TOK)<U,HA,HS>
L802	87-A91-552-010		FLTR,CFMT-450AL (AOK)<HR>
L811	87-005-847-080		COIL,2.2UH(CECS)
L821	87-A50-209-010		COIL,1POLE MPX(MIT)<U,HA,HS>
L821	87-A50-027-010		COIL,1POLE MPX(TOK)<HR>
L822	87-A50-209-010		COIL,1POLE MPX(MIT)<U,HA,HS>
L822	87-A50-027-010		COIL,1POLE MPX(TOK)<HR>
L832	87-005-847-080		COIL,2.2UH K CECS
L941	87-A50-022-010		COIL,ANT SW (COI) 7.96MHZ<HR>
L942	87-A50-550-010		COIL,OSC SW-2N (COI)<HR>
L943	87-A50-522-080		COIL,1MH K CEC<HR>
L944	87-A50-159-010		COIL,10MH K C2B<HR>
L952	87-A50-430-010		COIL,ANT MW(3BSW)<HR>
L953	87-A50-431-010		COIL,OSC MW(3BSW)<HR>
L951	8A-NF8-667-010		COIL,AM PACK 4(TOK)<U,HA,HS>
R161	87-A00-441-050		RES,270-1/2W J RP
R162	87-A00-441-050		RES,270-1/2W J RP
R163	87-A00-441-050		RES,270-1/2W J RP
R164	87-A00-441-050		RES,270-1/2W J RP
R790	87-010-197-080		CAP, CHIP 0.01 DM
R991	87-010-322-080		C-CAP,S 100P-50 CH
R993	87-010-322-080		C-CAP,S 100P-50 CH
R995	87-010-322-080		C-CAP,S 100P-50 CH
SFR351	87-A90-433-080		SFR,50K H NVZ6TLTA
SFR352	87-A90-433-080		SFR,50K H NVZ6TLTA
TC941	87-011-254-080		TRIMMER,CER 20P 4.0X4.5 ECR<HR>
TC943	87-011-253-080		TRIMMER,CER 30P 4.0X4.5 ECR<HR>
WH1	87-A90-510-010		HLDR,WIRE 2.5-9P
X991	87-A70-061-010		VIB,XTAL 4.500MHZ CSA-309

FRONT C.B

C101	87-010-190-080		S CHIP F 0.01
C102	87-010-322-080		C-CAP,S 100P-50 CH
C103	87-010-312-080		C-CAP,S 15P-50 CH
C104	87-012-157-080		C-CAP,S 330P-50 CH
C105	87-010-406-040		CAP,E 22-50 SME
C106	87-010-493-040		CAP,E 0.47-50 GAS
C107	87-A10-189-040		CAP,E 220-10
C108	87-A10-189-040		CAP,E 220-10
C109	87-010-196-080		CHIP CAPACITOR,0.1-25
C110	87-010-178-080		CHIP CAP 1000P
C112	87-012-368-080		C-CAP,S 0.1-50 F
C113	87-012-369-080		C-CAP,S 0.047-50F
C114	87-010-196-080		CHIP CAPACITOR,0.1-25
C115	87-010-196-080		CHIP CAPACITOR,0.1-25
C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C118	87-012-145-080		CAP, CHIP S 270P CH
C119	87-010-498-040		CAP,E 10-16 GAS
C120	87-010-196-080		CHIP CAPACITOR,0.1-25
C121	87-010-196-080		CHIP CAPACITOR,0.1-25
C122	87-010-196-080		CHIP CAPACITOR,0.1-25
C123	87-012-393-080		C-CAP,S 0.22-16 R K
C181	87-010-322-080		C-CAP,S 100P-50 J CH GRM
C182	87-010-178-080		CHIP CAP 1000P
C183	87-012-156-080		C-CAP,S 220P-50 CH
C202	87-012-157-080		C-CAP,S 330P-50 CH
C203	87-012-157-080		C-CAP,S 330P-50 CH
C204	87-012-157-080		C-CAP,S 330P-50 CH
C205	87-012-157-080		C-CAP,S 330P-50 CH
C206	87-012-156-080		C-CAP,S 220P-50 J CH GRM
C211	87-012-140-080		CAP 470P
C221	87-010-421-040		CAP,E 4.7-50 5L
C222	87-010-404-040		CAP,E 4.7-50 SME
C223	87-010-408-040		CAP,E 47-50 SME
C224	87-012-369-080		C-CAP,S 0.047-50F
C382	87-010-320-080		CHIP CAP 68P
C383	87-010-196-080		CHIP CAPACITOR,0.1-25
C384	87-010-196-080		CHIP CAPACITOR,0.1-25
C385	87-010-196-080		CHIP CAPACITOR,0.1-25
C386	87-010-196-080		CHIP CAPACITOR,0.1-25

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C387	87-010-196-080		CHIP CAPACITOR,0.1-25
C392	87-010-320-080		CHIP CAP 68P
C402	87-010-196-080		CHIP CAPACITOR,0.1-25
C403	87-010-322-080		C-CAP,S 100P-50 CH
C404	87-010-322-080		C-CAP,S 100P-50 CH
C405	87-010-322-080		C-CAP,S 100P-50 CH
C406	87-010-322-080		C-CAP,S 100P-50 CH
C407	87-010-322-080		C-CAP,S 100P-50 CH
C408	87-010-322-080		C-CAP,S 100P-50 CH
C409	87-010-196-080		C-CAP,S 0.1-25 Z F C2012
C501	87-010-544-040		CAP,E 0.1-50 SME<U,HA>
C502	87-010-196-080		CHIP CAPACITOR,0.1-25<U,HA>
C503	87-010-544-040		CAP,E 0.1-50 SME<U,HA>
C504	87-012-156-080		C-CAP,S 220P-50 CH<U,HA>
C505	87-010-178-080		CHIP CAP 1000P<U,HA>
C521	87-010-178-080		CHIP CAP 1000P<U,HA>
C601	87-010-186-080		CAP,CHIP 4700P
C602	87-010-405-040		CAP,E 10-50 M 11L SME<HR>
C603	87-010-320-080		CHIP CAP 68P
C604	87-010-546-040		CAP,E 0.33-50
C606	87-010-112-040		CAP,E 100-16
C607	87-010-196-080		CHIP CAPACITOR,0.1-25
C608	87-010-178-080		C-CAP,S 1000P-50 K B C2012<HR>
C609	87-010-196-080		CHIP CAPACITOR,0.1-25
C621	87-010-178-080		CHIP CAP 1000P
C652	87-010-183-080		C-CAP,S 2700P-50 B
C653	87-010-213-080		C-CAP,S 0.015-50 B
C701	87-010-260-040		CAP,E 47-25 SME
C802	87-010-168-080		CAP, CHIP 150P<HA,HS,HR>
C804	87-010-187-080		CAP CHIP S5600P<HA,HS,HR>
C808	87-010-196-080		CHIP CAPACITOR,0.1-25<HA,HS>
C809	87-012-155-080		C-CAP 180P-50CH<HA,HS,HR>
CN102	8A-NF7-605-010		CONN ASSY,4P V 80MM
CN104	87-099-017-010		CONN, 15P 6216 V
CN901	87-A60-138-010		CONN,13P V FE
CON101	87-099-720-010		CONN,30P TYK-B(P)
FB601	87-008-372-080		FILTER, EMI BL OIRNI
FB801	87-008-372-080		FILTER, EMI BL OIRNI<HA,HR,HS>
FC104	88-915-111-110		FF-CABLE,15P 1.25
FC901	85-NF5-618-010		CABLE,FFC 13P-1.25
FL201	8A-NF7-601-010		FL,BJ754GNK
J601	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM
J602	87-A61-242-010		JACK,6.3 BLK MONO W/SW V KM<HR>
JW807	87-005-847-080		COIL,2.2UH K CECS<HR>
L101	87-A50-333-010		COIL,OSC 9.43MHZ
L801	87-A50-093-010		COIL,CLOCK 5.76MHZ<HA,HR,HS>
L802	87-005-847-080		COIL,2.2UH(CECS)<HA,HR,HS>
LED401	87-017-733-080		LED,SEL1250SM
LED402	87-017-733-080		LED,SEL1250SM
LED403	87-017-733-080		LED,SEL1250SM
LED404	87-017-733-080		LED,SEL1250SM
LED405	87-017-733-080		LED,SEL1250SM
LED416	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED417	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED418	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED419	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED420	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED421	87-A40-619-080		LED,SLR-56PT-TE7-W GRN
LED422	87-A40-317-080		LED,SLR-342VCT31 RED
LED423	87-A40-317-080		LED,SLR-342VCT31 RED
LED424	87-A40-317-080		LED,SLR-342VCT31 RED
LED440	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED441	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED442	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED443	87-A40-563-010		LED,SEL6515C-LF62 PGRN
LED444	87-A40-563-010		LED,SEL6215S-LF62 PGRN
LED445	87-A40-563-010		LED,SEL6215S-LF62 PGRN
LED454	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED455	87-A40-678-010		LED,SELU1E10CXM BLUE-DEF
LED499	87-017-733-080		LED,SEL1250SM
R211	87-012-156-080		C-CAP,S 220P-50 J CH GRM
R212	87-012-156-080		C-CAP,S 220P-50 J CH GRM
S101	87-A91-709-010		SW,RTRY 1-2-24 RE012103 PV
S102	87-A91-710-010		SW,RTRY 1-2-12 RE012103 PV
S301	87-A91-024-180		SW,TACT KSHG611BT
S302	87-A91-024-180		SW,TACT KSHG611BT
S303	87-A91-024-180		SW,TACT KSHG611BT
S304	87-A91-024-180		SW,TACT KSHG611BT
S305	87-A91-024-180		SW,TACT KSHG611BT
S306	87-A91-024-180		SW,TACT KSHG611BT
S311	87-A91-024-180		SW,TACT KSHG611BT<HR,HS>
S312	87-A91-024-180		SW,TACT KSHG611BT<HR,HS>
S313	87-A91-024-180		SW,TACT KSHG611BT<HR,HS>
S314	87-A91-024-180		SW,TACT KSHG611BT<HA,HR,HS>
S321	87-A91-024-180		SW,TACT KSHG611BT
S322	87-A91-024-180		SW,TACT KSHG611BT
S323	87-A91-024-180		SW,TACT KSHG611BT
S324	87-A91-024-180		SW,TACT KSHG611BT
S325	87-A91-024-180		SW,TACT KSHG611BT
S326	87-A91-024-180		SW,TACT KSHG611BT
S327	87-A91-024-180		SW,TACT KSHG611BT
S328	87-A91-024-180		SW,TACT KSHG611BT
S329	87-A91-024-180		SW,TACT KSHG611BT<HA,HR,HS>
S330	87-A91-024-180		SW,TACT KSHG611BT<HA,HR,HS>
S331	87-A91-024-180		SW,TACT KSHG611BT<HA,HR,HS>
S332	87-A91-024-180		SW,TACT KSHG611BT<HA,HR,HS>
S333	87-A91-024-180		SW,TACT KSHG611BT
S334	87-A91-024-180		SW,TACT KSHG611BT
S341	87-A91-024-180		SW,TACT KSHG611BT
S342	87-A91-024-180		SW,TACT KSHG611BT
S343	87-A91-024-180		SW,TACT KSHG611BT
S344	87-A91-024-180		SW,TACT KSHG611BT
S345	87-A91-024-180		SW,TACT KSHG611BT
S346	87-A91-024-180		SW,TACT KSHG611BT
S347	87-A91-024-180		SW,TACT KSHG611BT
S349	87-A91-024-180		SW,TACT KSHG611BT
S350	87-A91-024-180		SW,TACT KSHG611BT
S351	87-A91-024-180		SW,TACT KSHG611BT
S352	87-A91-024-180		SW,TACT KSHG611BT
S353	87-A91-024-180		SW,TACT KSHG611BT
S354	87-A91-024-180		SW,TACT KSHG611BT
S355	87-A91-024-180		SW,TACT KSH0611BT
VR501	86-NFA-607-010		VR,RTRY 10K15AX1<U,HA,HS>

AMP C.B

C101	87-010-183-080		C-CAP,S 2700P-50 B
C102	87-010-183-080		C-CAP,S 2700P-50 B
C103	87-010-545-080		CAP, ELECT 0.22-50V
C104	87-010-545-080		CAP, ELECT 0.22-50V
C107	87-010-405-080		CAP, ELECT 10-50V
C108	87-010-405-080		CAP, ELECT 10-50V
C111	87-010-179-080		C-CAP,S 1200P-50 K B GRM<HS>
C112	87-010-179-080		C-CAP,S 1200P-50 K B GRM<HS>
C113	87-010-405-080		CAP, ELECT 10-50V
C114	87-010-405-080		CAP, ELECT 10-50V
C115	87-010-866-080		CAP, ELECT 10-63
C116	87-010-866-080		CAP, ELECT 10-63
C119	87-010-197-080		CAP, CHIP 0.01 DM
C120	87-010-197-080		CAP, CHIP 0.01 DM
C133	87-010-190-080		C-CAP,S 0.01-50 Z F C2012
C153	87-010-188-080		C-CAP,S 6800P-50 K B C2012
C201	87-A10-300-080		CAP,M 0.027-50 J
C202	87-A10-300-080		CAP,M 0.027-50 J
C203	87-A10-300-080		CAP,M 0.027-50 J
C204	87-A10-300-080		CAP,M 0.027-50 J
C205	87-010-180-080		C-CER 1500P
C206	87-010-180-080		C-CER 1500P
C207	87-010-401-080		CAP, ELECT 1-50V
C208	87-010-401-080		CAP, ELECT 1-50V

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
C209	87-010-187-080		CAP CHIP S5600P
C210	87-010-187-080		CAP CHIP S5600P
C211	87-010-402-080		CAP, ELECT 2.2-50V
C212	87-010-402-080		CAP, ELECT 2.2-50V
C215	87-012-140-080		C-CAP,S 470P-50 J CH<U,HA,HR>
C215	87-010-179-080		C-CAP,S 1200P-50 K B GRM<HS>
C216	87-012-140-080		C-CAP,S 470P-50 J CH<U,HA,HR>
C216	87-010-179-080		C-CAP,S 1200P-50 K B GRM<HS>
C217	87-010-403-080		CAP, ELECT 3.3-50V
C218	87-010-403-080		CAP, ELECT 3.3-50V
C221	87-010-405-080		CAP, ELECT 10-50V
C222	87-010-405-080		CAP, ELECT 10-50V
C223	87-010-197-080		CAP, CHIP 0.01 DM
C224	87-010-197-080		CAP, CHIP 0.01 DM
C251	87-010-196-080		CHIP CAPACITOR,0.1-25
C252	87-010-196-080		CHIP CAPACITOR,0.1-25
C253	87-010-196-080		CHIP CAPACITOR,0.1-25
C254	87-010-196-080		CHIP CAPACITOR,0.1-25
C255	87-010-190-080		S CHIP F 0.01
C256	87-010-190-080		S CHIP F 0.01
C257	87-010-190-080		S CHIP F 0.01
C258	87-010-190-080		S CHIP F 0.01
C401	87-010-260-080		CAP, ELECT 47-25
CN101	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CN102	87-A61-011-010		CONN,13P H BLK TAC-L13P-A3
CNA101	8A-NF8-656-010		CONN ASSY,5P TID-A 400
J201	87-A61-148-010		JACK,PIN 4P R/W BLUE
L251	87-A50-610-010		COIL,1UH K(MDEC)<U,HA>
L252	87-A50-610-010		COIL,1UH K(MDEC)<U,HA>
R129	87-A00-262-080		RES,M/F 0.15-2W J
R130	87-A00-262-080		RES,M/F 0.15-2W J
R231	87-A00-258-080		RES,M/F 0.22-1W J
R232	87-A00-258-080		RES,M/F 0.22-1W J
WH101	87-A90-459-010		HLDR,WIRE 2.5-5P

PT C.B

C1	87-010-387-080		CAP,E 470-25 SME
C4	87-A11-148-080		CAP,TC U 0.1-50 Z F
C5	87-A11-148-080		CAP,TC U 0.1-50 Z F
C6	87-A10-627-000		CAP,E 2200-50 M SMG
C7	87-A10-627-000		CAP,E 2200-50 M SMG
C8	87-A11-148-080		CAP,TC U 0.1-50 Z F
C9	87-A11-148-080		CAP,TC U 0.1-50 Z F
C10	87-A11-148-080		CAP,TC U 0.1-50 Z F
C11	87-A11-148-080		CAP,TC U 0.1-50 Z F
C12	87-016-520-000		CAP,E 3300-65 M SMG<U>
C12	87-016-657-090		CAP,E 3300-71<HA,HR,HS>
C13	87-016-520-000		CAP,E 3300-65 M SMG<U>
C13	87-016-657-090		CAP,E 3300-71<HA,HR,HS>
C16	87-010-403-080		CAP, ELECT 3.3-50V
CN1	87-A61-110-010		CONN,9P V TID-A
CN2	87-A61-108-010		CONN,5P V TID-A
⚠ PT1	8A-NF7-621-010		PT,ANF-7 U<U>
⚠ PT1	8A-NF7-622-010		PT,ANF-7 H<HA,HR,HS>
⚠ PT2	8A-NF8-661-010		PT,SUB ANF-8 U<U>
⚠ PT2	8A-NF8-673-010		PT,SUB ANF-8 (H) KAMI<HA,HR,HS>
⚠ RY1	87-A91-281-010		RELAY,AC DC12V OSA-SS-212DM5<HA,HR,HS>
⚠ RY2	87-A90-976-010		RELAY,AC 12V SDT-S-112 LMR<U>
⚠ S1	87-A90-165-010		SW,SL 1-2-3 SWS2301<HA,HR>
⚠ T1	87-A60-317-010		TERMINAL, 1P MSC
⚠ T2	87-A60-317-010		TERMINAL, 1P MSC

VM C.B<HA,HR,HS>

CNA3	87-049-919-010		CONN,3P V WHT EH

DECK C.B

W1	82-ZM3-601-010		RBN,CORD,4P-75
CON105	87-099-756-010		CONN,15P 9604 S F
SFR1	87-024-581-010		SFR,3.3K DIA 6H
SOL1	82-ZM1-618-410		SOL ASSY,27
SOL2	82-ZM1-618-410		SOL ASSY,27
SW1	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW2	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW3	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW4	87-036-110-010		SW,MICRO SPPB62
SW5	87-036-110-010		SW,MICRO SPPB62
SW6	87-036-110-010		SW,MICRO SPPB62
SW8	87-A90-248-010		SW,MICRO ESE11SH2CXQ
SW9	87-A90-248-010		SW,MICRO ESE11SH2CXQ

HEAD-1 C.B

	85-ZM3-602-010		PWB,FLEX A

HEAD-2 C.B

	85-ZM3-602-010		PWB,FLEX A
CON351	87-NF6-616-010		CONN ASSY,8P-RPB

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding

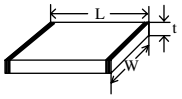
88 − □□□ □□□

A
抵抗部品コード
Resistor Code

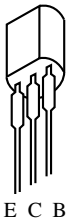
桁表示
Figure

抵抗値
Value of resistor

チップ抵抗
Chip resistor

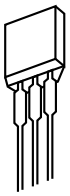
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION

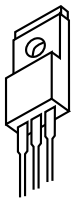


KTA1266GR
KTC3198GR
KTC3199GR
CSA952K

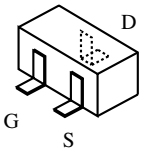
CD1585BC
CSC4115BC



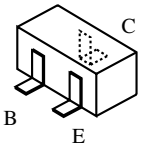
DTC114ES



2SB1370



2SK2158
2SJ461-T1
2SK360E



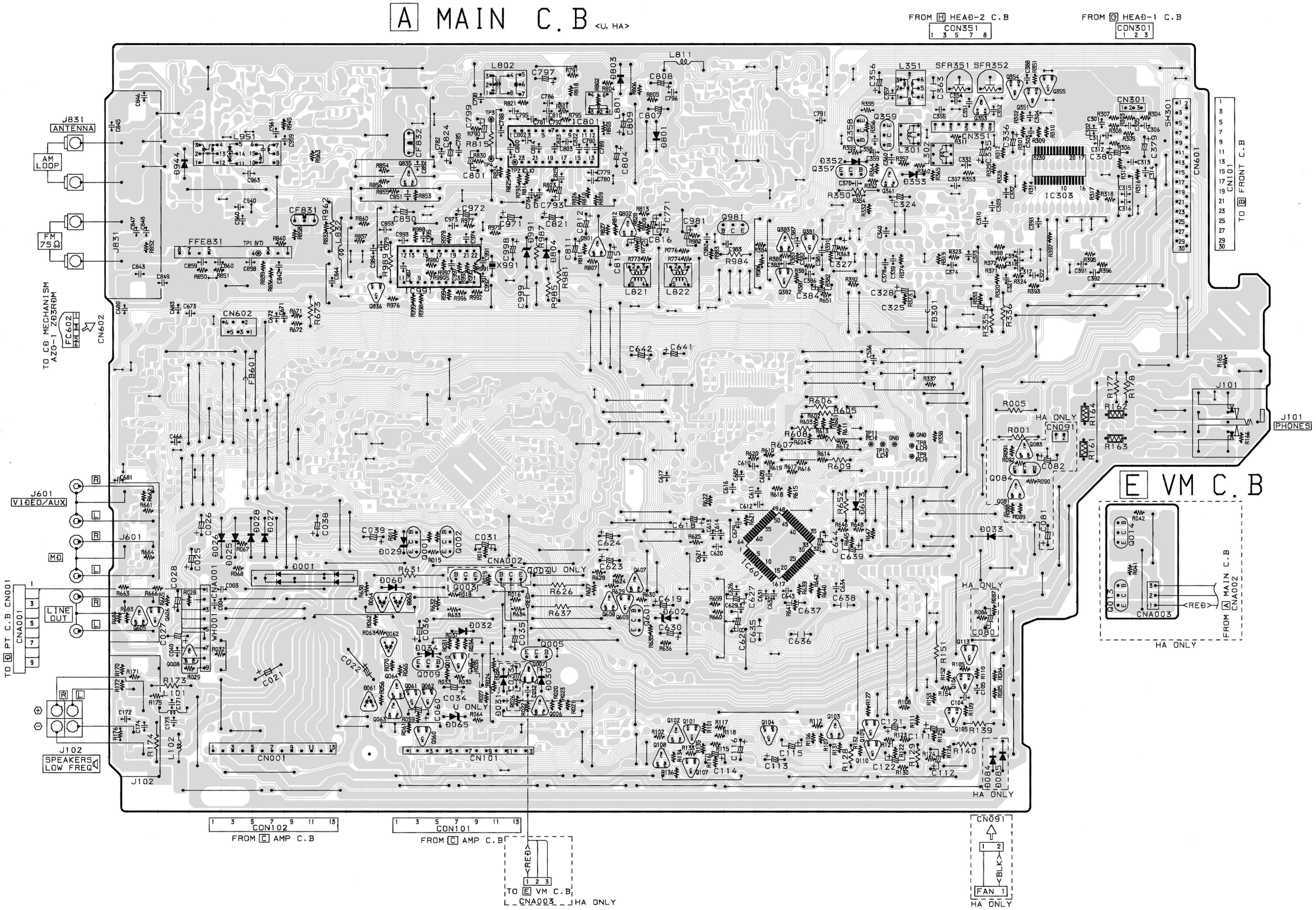
2SA1235F
2SC2714
2SC3052F
CMBT5551
CMBT5401
CSD1306E

RT1N141C
RT1P141C
RT1P144C
RT1P441C
2SA933SRS

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

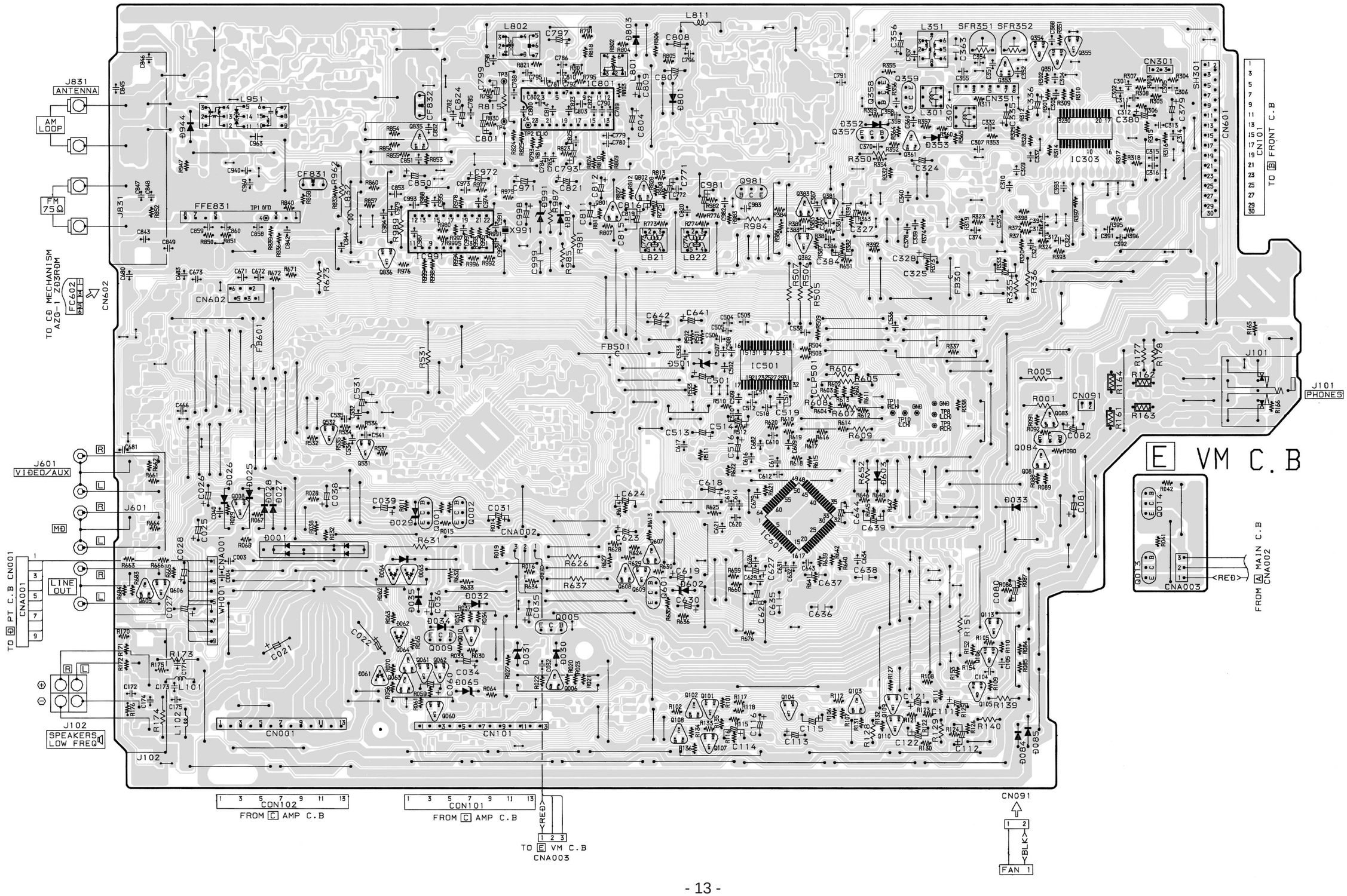
A MAIN C.B <U, HA>



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B <HS>



E VM C.B

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

A MAIN C.B <HR>

FROM H HEAD-2 C.B
CON351
1 3 5 7 8

FROM G HEAD-1 C.B
CON301
1 2 3

TO B FRONT C.B
CN101
CN601

J940
MW LOOP

J831
ANTENNA

SM LOOP

FM 75Ω

J831

TO CB MECHANISM AZG-1 Z05RHM
FC602
CN602

J601
VIDEO/AUX

M

L

R

LINE OUT

TO D PT C.B CN001
CNA001

J102
SPEAKERS LOW FREQ

CN001

CN101

CON102
FROM C AMP C.B

CON101
FROM C AMP C.B

TO E VM C.B
CNA003
RED

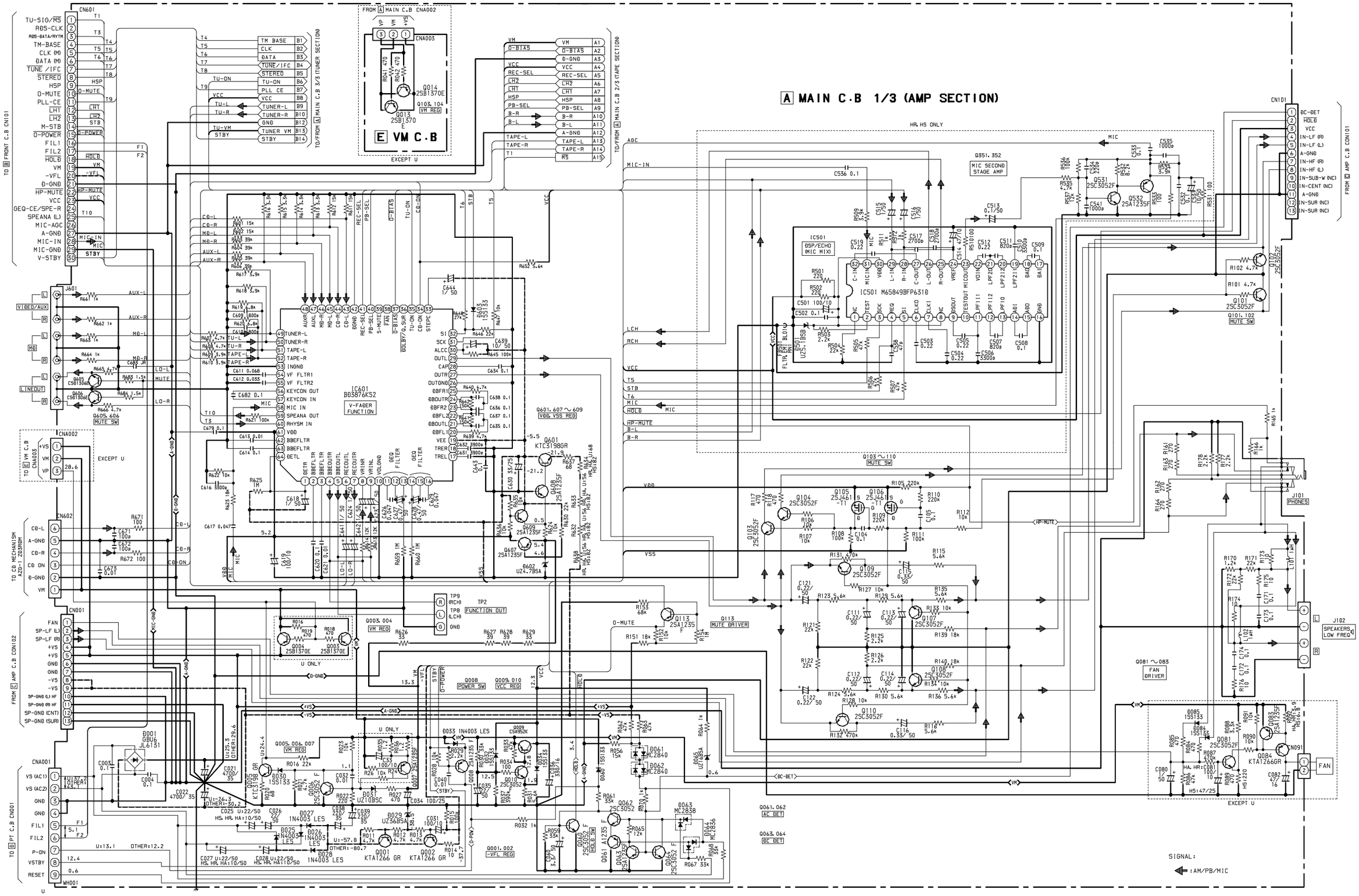
CN091
1 2
BLK
FAN 1

J101
PHONES

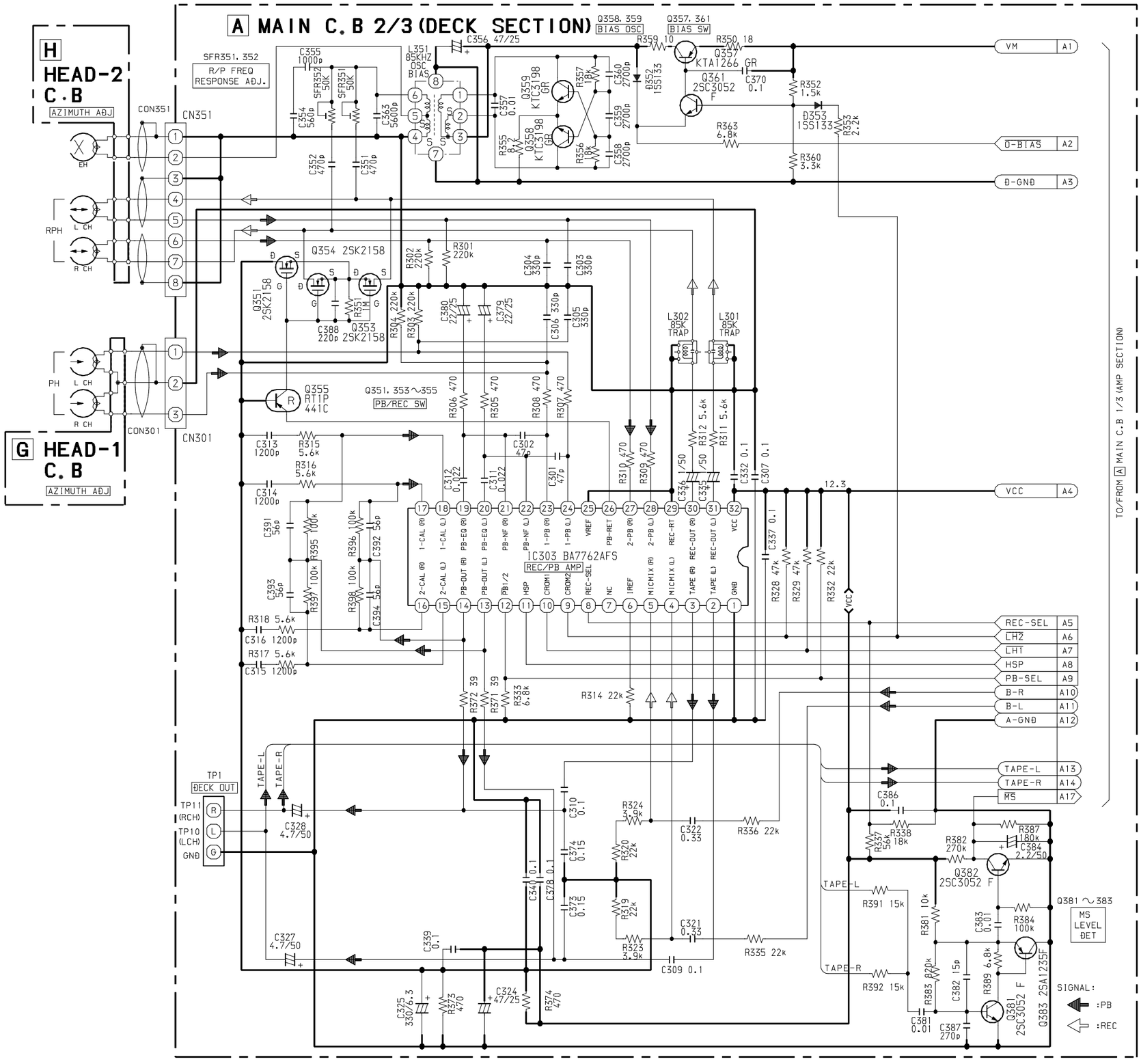
FROM A MAIN C.B
CNA002

E VM C.B

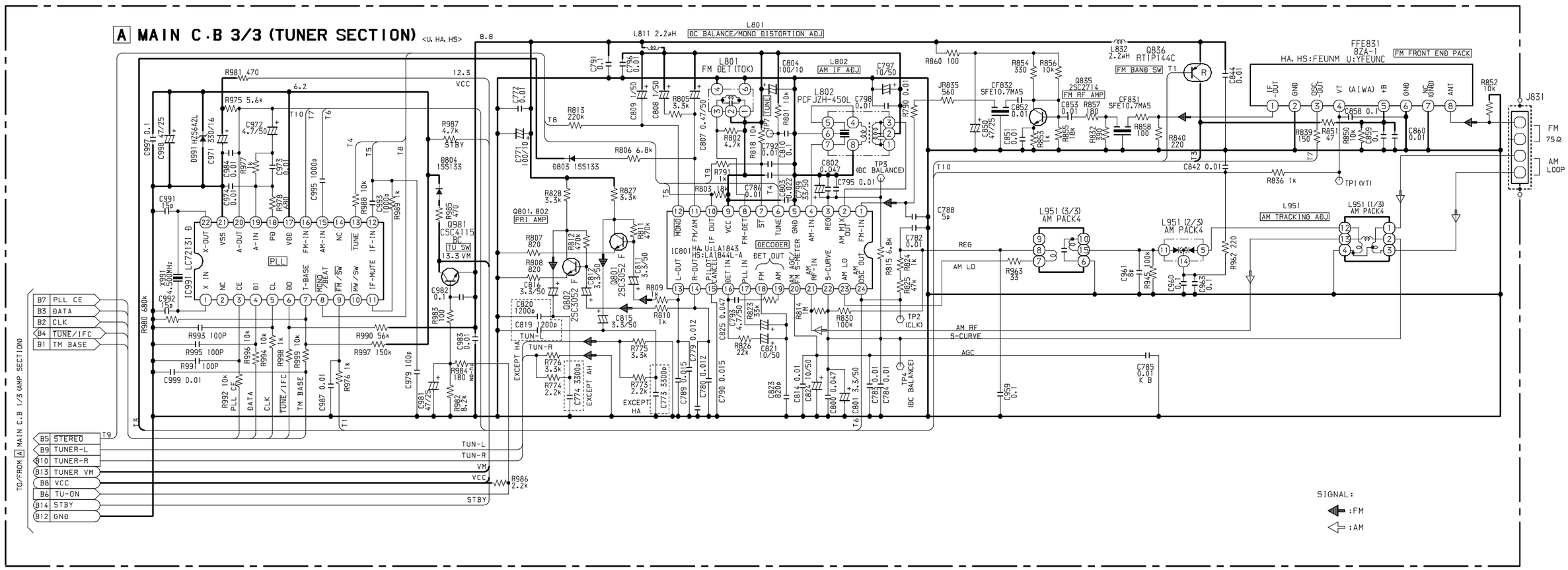
SCHEMATIC DIAGRAM - 1 (MAIN 1 / 3: AMP/ VM)



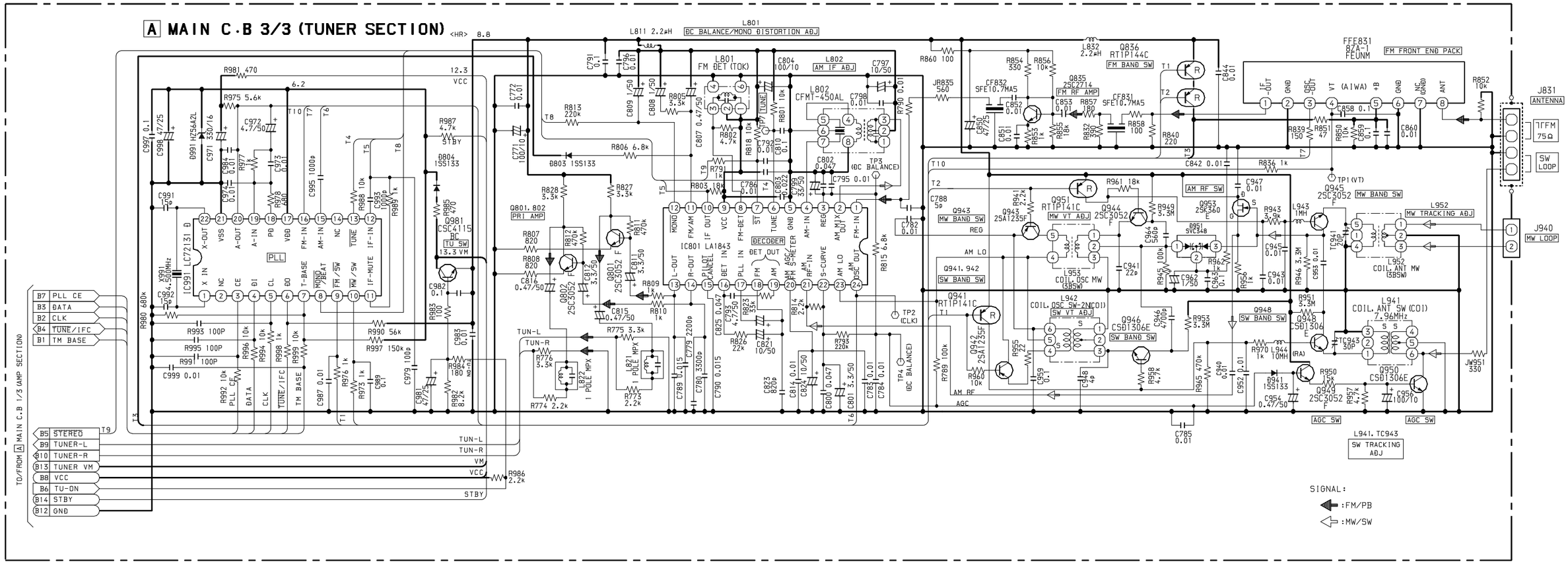
SCHEMATIC DIAGRAM - 2 (MAIN 2 / 3: DECK / HEAD-1 / HEAD-2)



SCHEMATIC DIAGRAM - 3 (MAIN 3 / 3: TUNER: U,HA,HS)

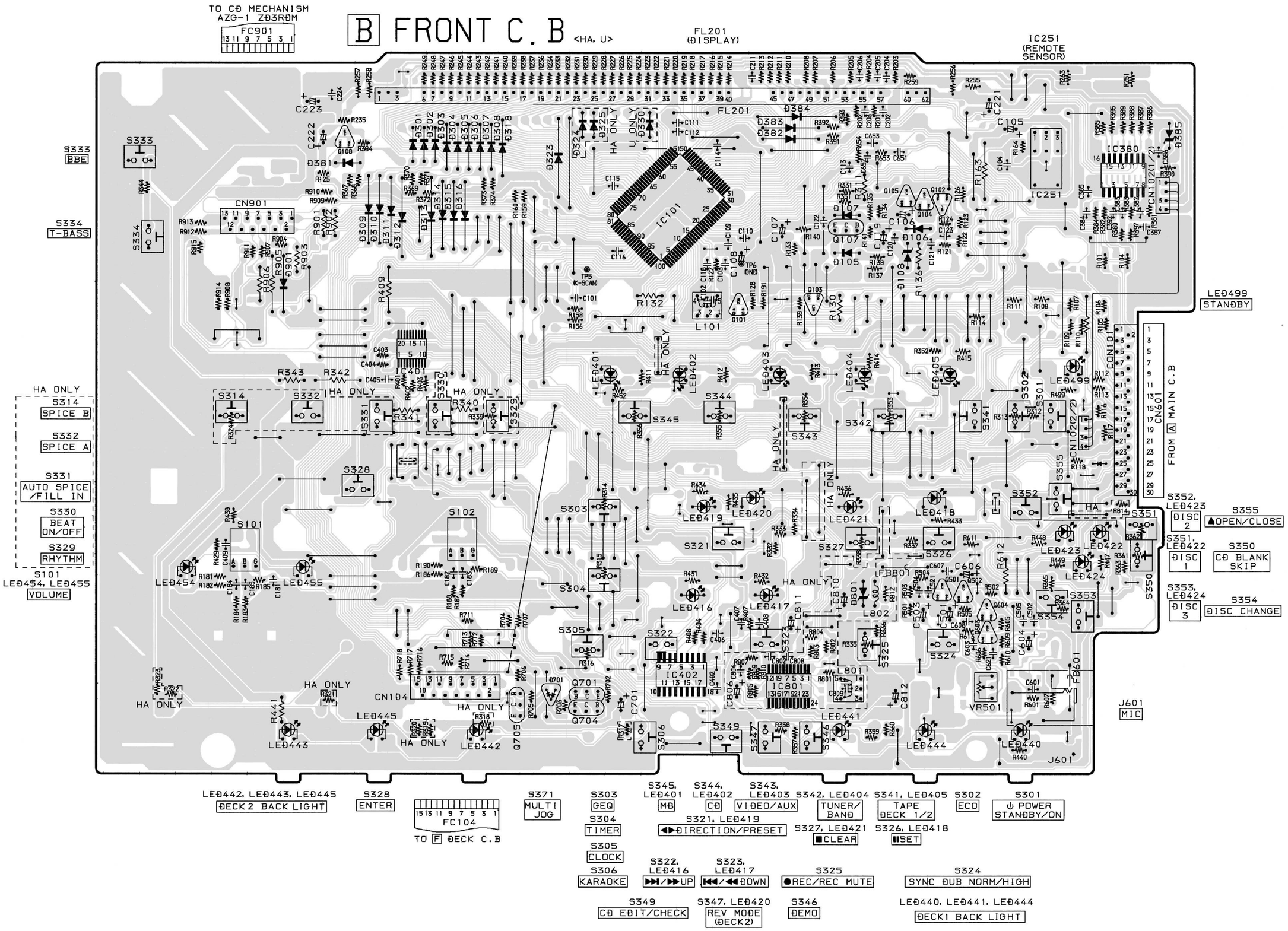


SCHEMATIC DIAGRAM - 4 (MAIN 3 / 3: TUNER: HR)



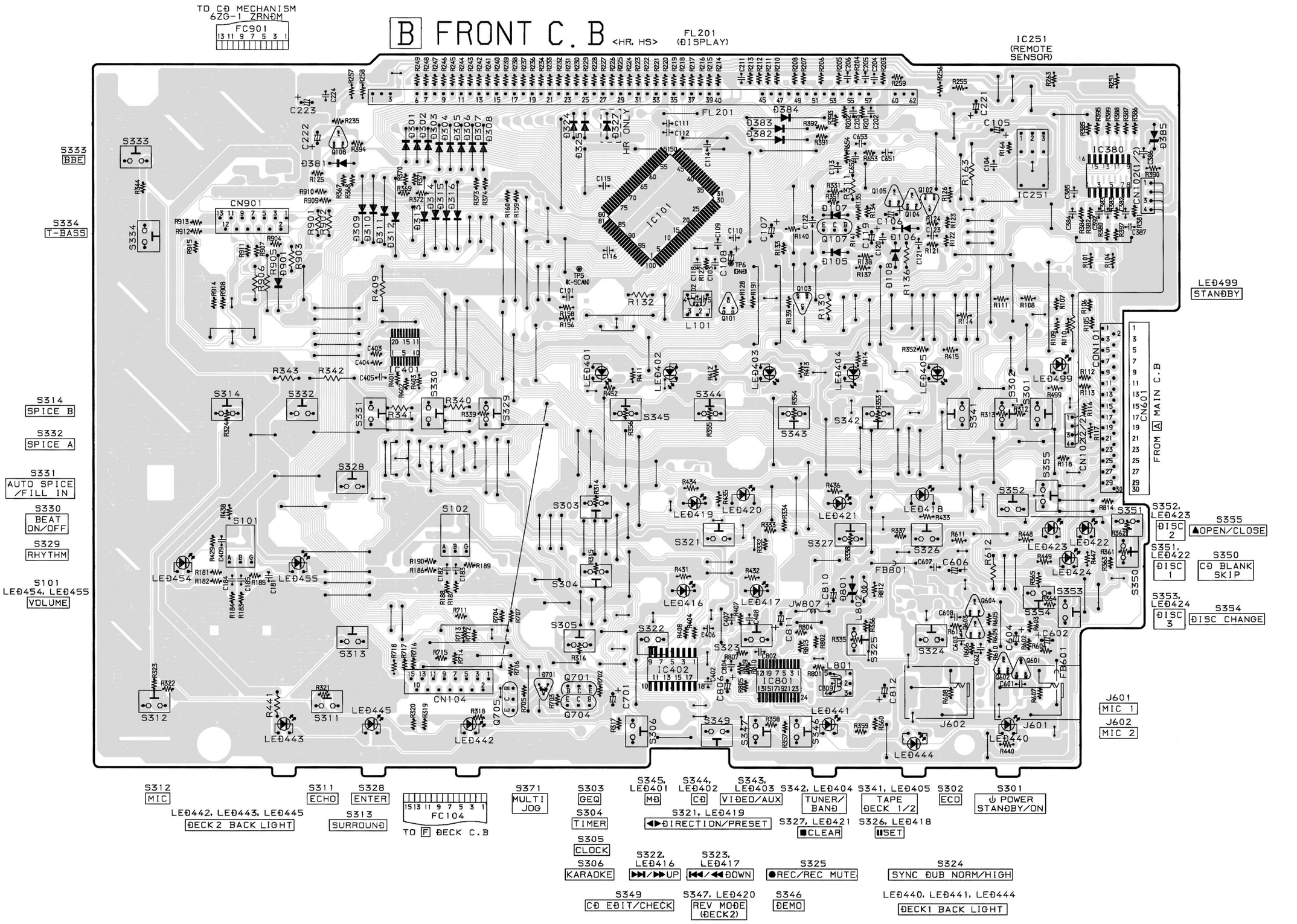
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

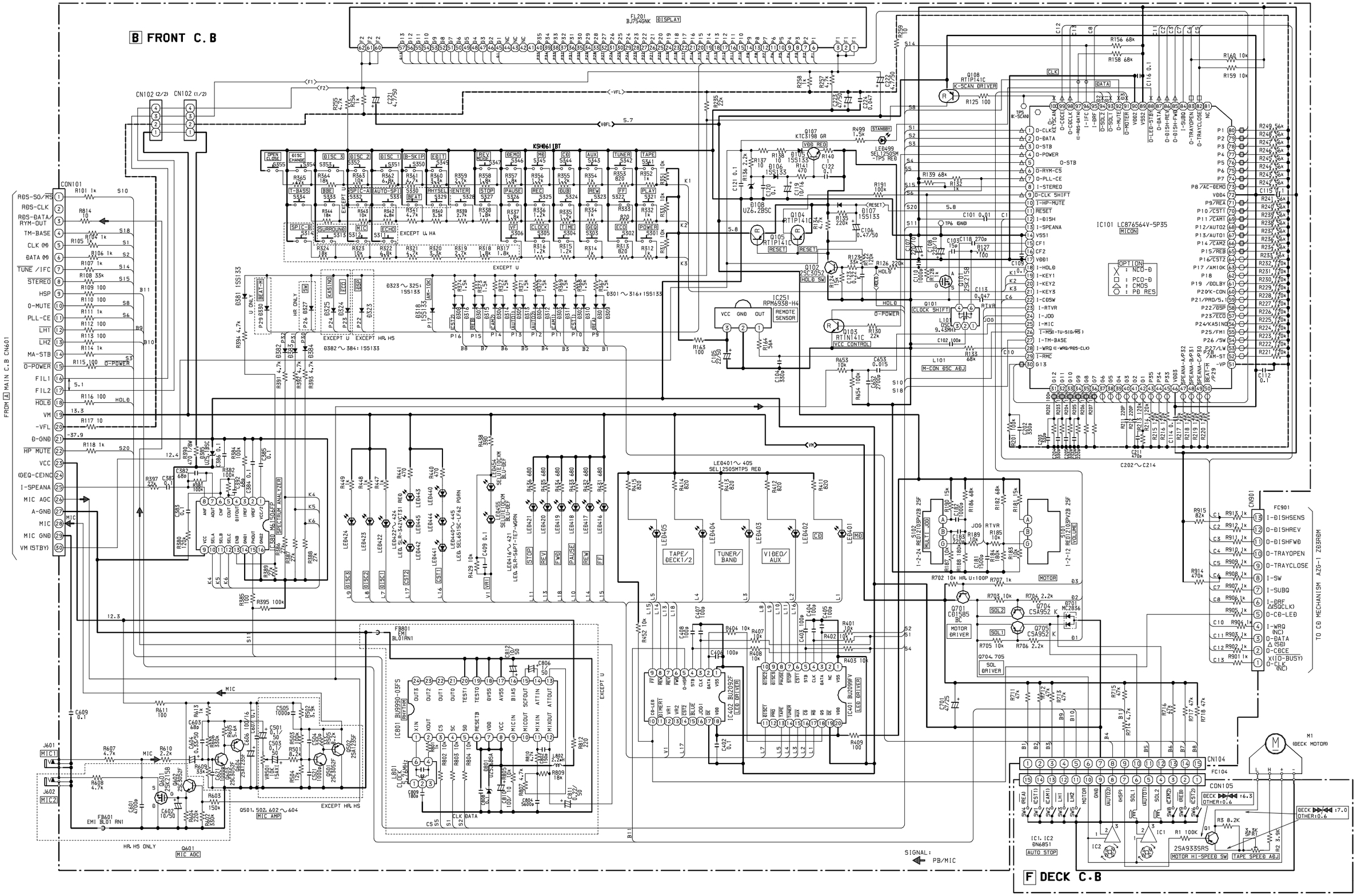


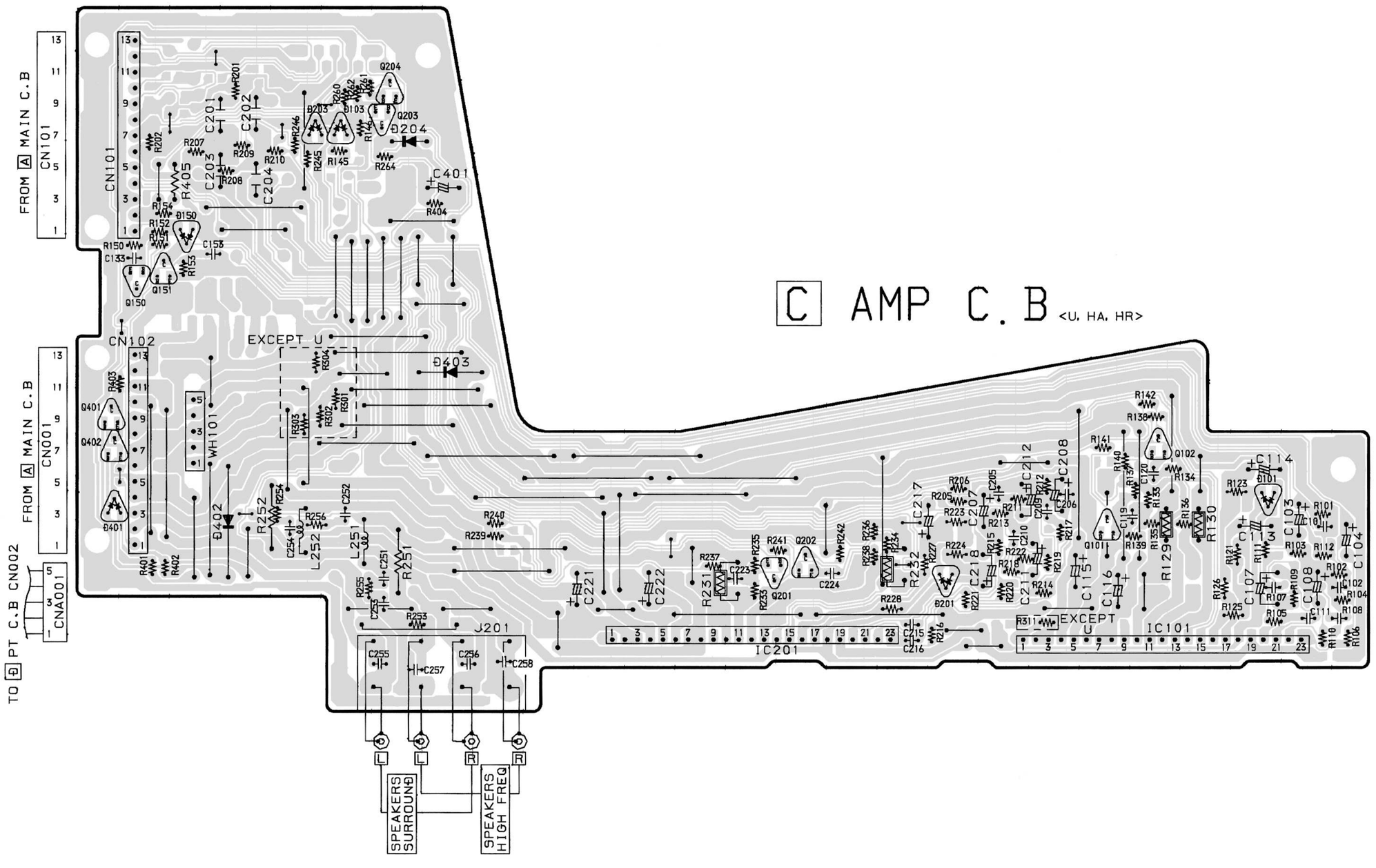
32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

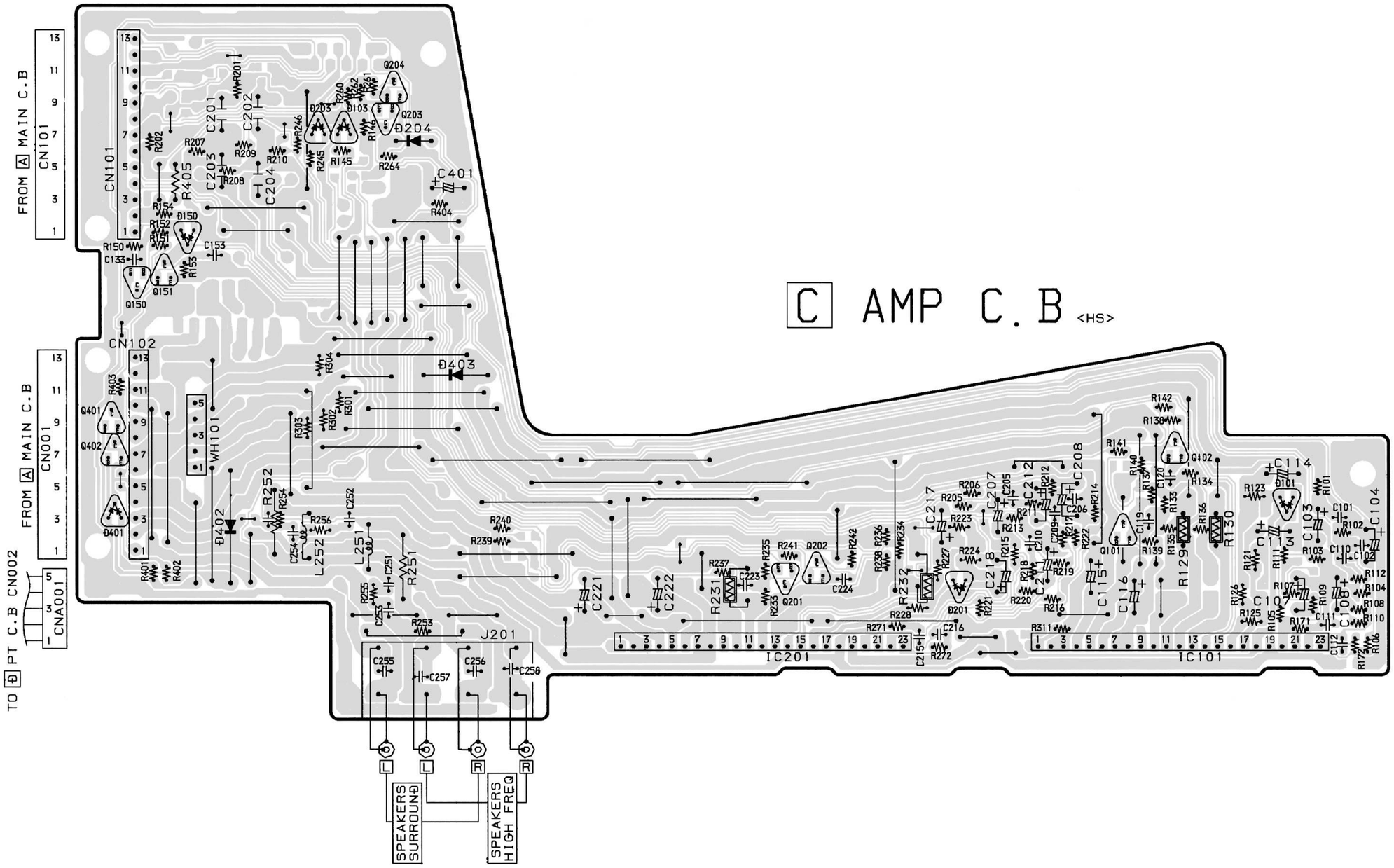


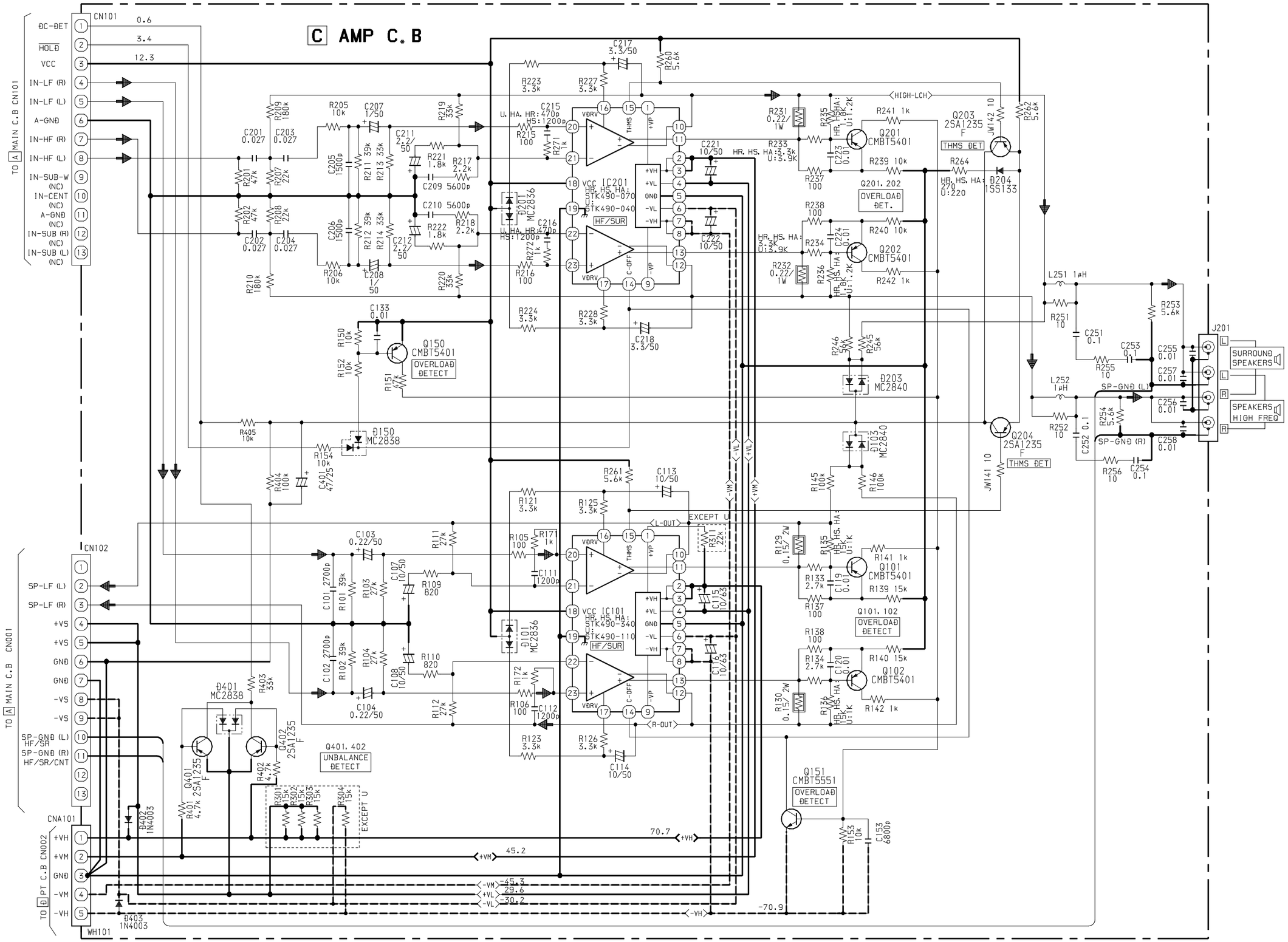
SCHEMATIC DIAGRAM - 5 (FRONT/ DECK)




C AMP C.B <U, HA, HR>
FROM A MAIN C.B
CN101
TO B PT C.B CN002
CNA001
CN102
EXCEPT U
WH101
J201
IC201
IC101
EXCEPT U
SPEAKERS SURROUND
SPEAKERS HIGH FREQ

C AMP C.B <HS>


FROM A MAIN C.B
CN101
CN001
TO D PT C.B CN002
CNA001
CN102
WH101
J201
IC201
IC101
SPEAKERS SURROUND
SPEAKERS HIGH FREQ


C AMP C.B
CN101
ĐC-ĐET
HOLĐ
VCC
IN-LF (R)
IN-LF (L)
A-GNĐ
IN-HF (R)
IN-HF (L)
IN-SUB-W (NC)
IN-CENT (NC)
A-GNĐ (NC)
IN-SUB (R) (NC)
IN-SUB (L) (NC)
TO A MAIN C.B CN101
0.6
3.4
12.3
IC201 STK490-070 STK490-040
HF/SUR
VĐRV
THMS
+VP
-VP
C-OFF
+VH
+VL
GNĐ
-VL
-VH
HIGH-LCH
Q201 CMBT5401
Q202 CMBT5401
Q203 2SA1235 F
Q204 2SA1235 F
THMS ĐET
Q201, 202 OVERLOAĐ ĐET.
Đ204 1SS133
Đ203 MC2840
Đ103 MC2840
Đ201 MC2836
Đ150 MC2838
Q150 CMBT5401
OVERLOAĐ ĐETECT
L251 1µH
L252 1µH
J201
SURROUND SPEAKERS
SPEAKERS HIGH FREQ
SP-GNĐ (L)
SP-GNĐ (R)
CN102
SP-LF (L)
SP-LF (R)
+VS
GNĐ
-VS
SP-GNĐ (L) HF/SR
SP-GNĐ (R) HF/SR/CNT
TO A MAIN C.B CN001
IC101 STK490-340 STK490-110
EXCEPT U
L-OUT
R-OUT
Q101 CMBT5401
Q102 CMBT5401
Q101, 102 OVERLOAĐ ĐETECT
Đ101 MC2836
Đ401 MC2838
Q401, 402 UNBALANCE ĐETECT
Q401 2SA1235 F
Q402 2SA1235 F
Q151 CMBT5551
OVERLOAĐ ĐETECT
CNA101
+VH
+VM
GNĐ
-VM
-VH
TO B PT C.B CN002
Đ402 1N4003
Đ403 1N4003
WH101
70.7
45.2
-45.3
29.6
-30.2
-70.9

32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

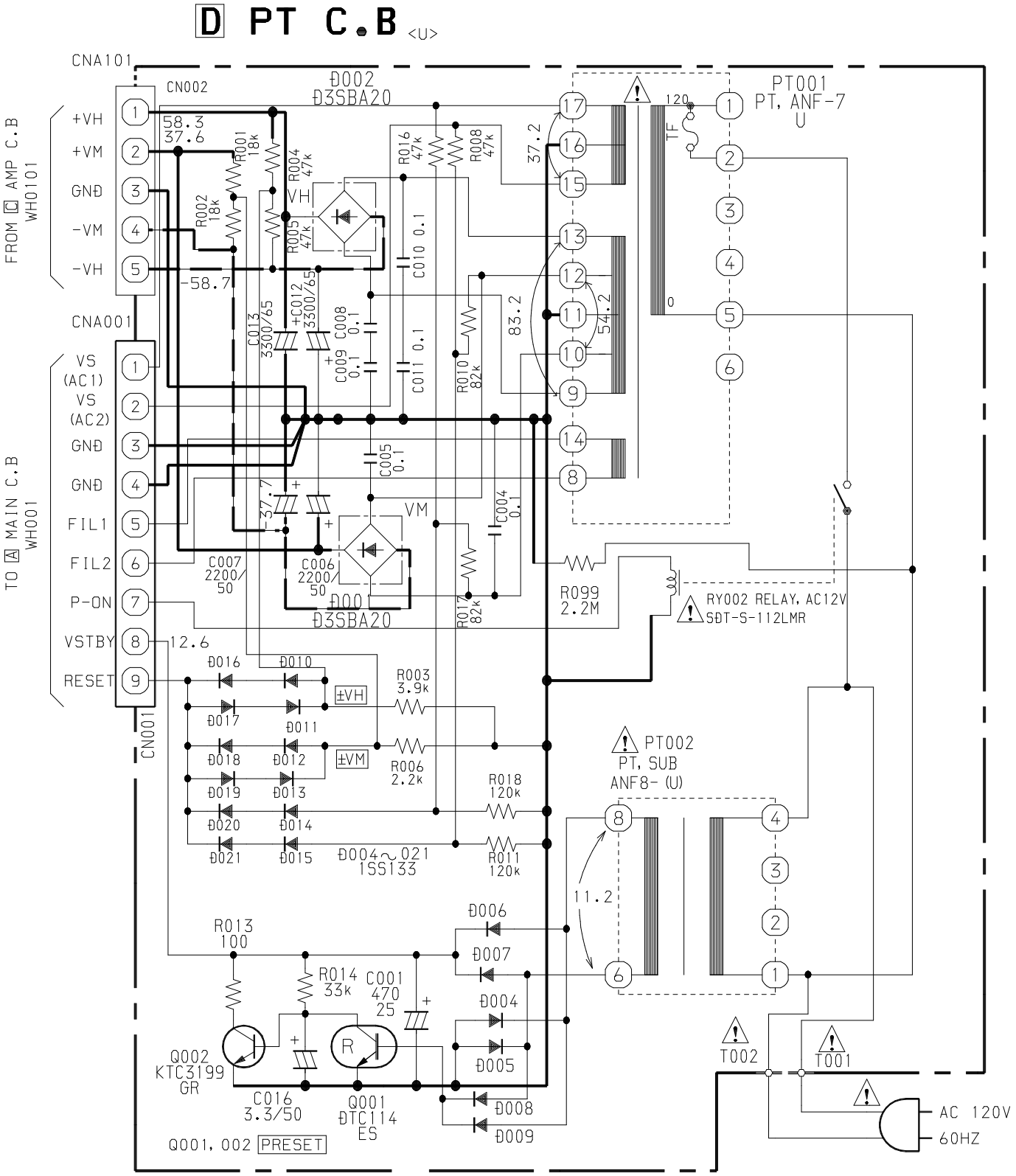
PT C.B <U>

WH001
TO A MAIN C.B
1 3 5 7 9
CNA001

FROM C AMP C.B
WH101
CNA101

CN001
CN002
RY002
PT001
PT002
TF
T001
T002
BLK
WHT
120V AC
60HZ
Q001
Q002
R001 R002 R003 R004 R005 R006 R008 R010 R011 R013 R014 R015 R016 R017 R018 R099
C001 C002 C003 C004 C005 C006 C007 C008 C009 C010 C011 C012 C013 C015 C016
D001 D002 D004 D005 D006 D007 D008 D009 D010 D011 D012 D013 D016 D017 D018 D019 D020 D021

SCHEMATIC DIAGRAM - 7 (PT: U)



32 31 30 29 28 27 26 25 24 23 22 21 20 19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1

A B C D E F G H I J K L M N O P Q R S T U

Đ PT C.B <HA, HR>

WH001
TO A MAIN C.B
CNA001

CN001
CN002
WH101
FROM C AMP C.B
CNA101

Đ001 Đ002 Đ003 Đ004 Đ005 Đ006 Đ007 Đ008 Đ009 Đ010 Đ011 Đ012 Đ013 Đ014 Đ015 Đ016 Đ017 Đ018 Đ019 Đ020 Đ021

Q001 Q002

R001 R002 R003 R004 R008 R010 R011 R013 R014 R016 R017 R018

C001 C004 C005 C006 C007 C008 C009 C010 C011 C012 C013 C014 C015

PT001 PT002

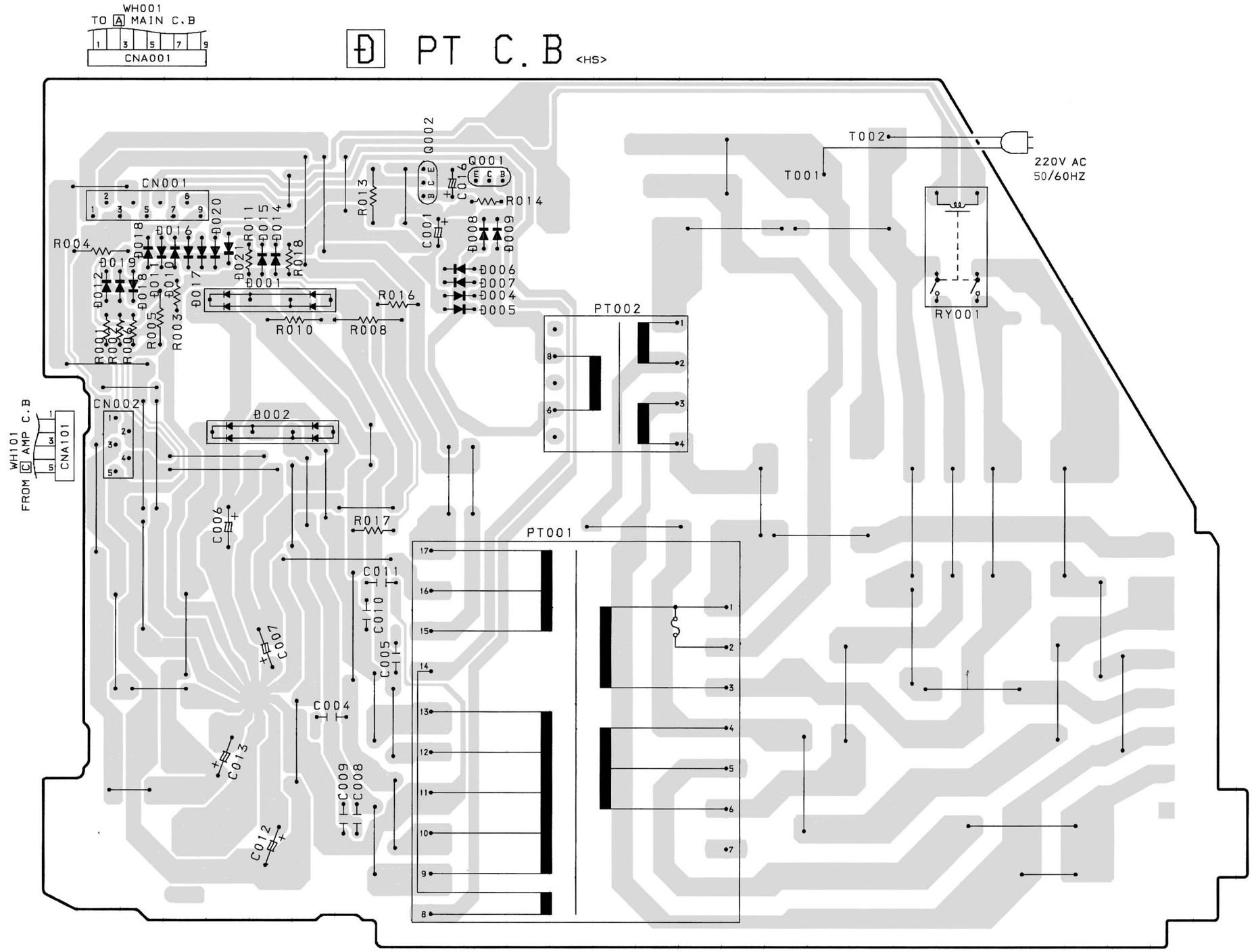
TF

T001 T002

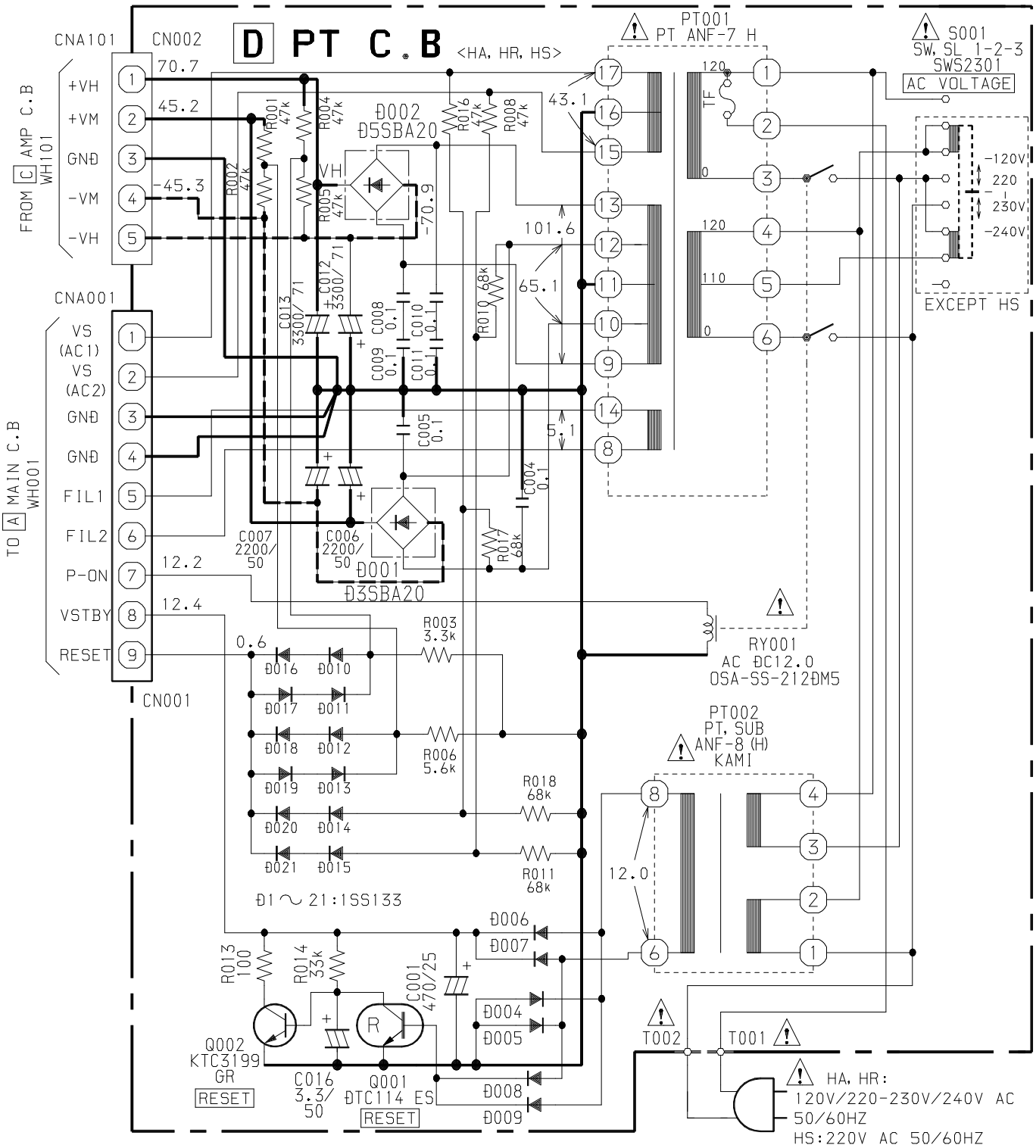
120V/220-230V/240V AC
50/60HZ

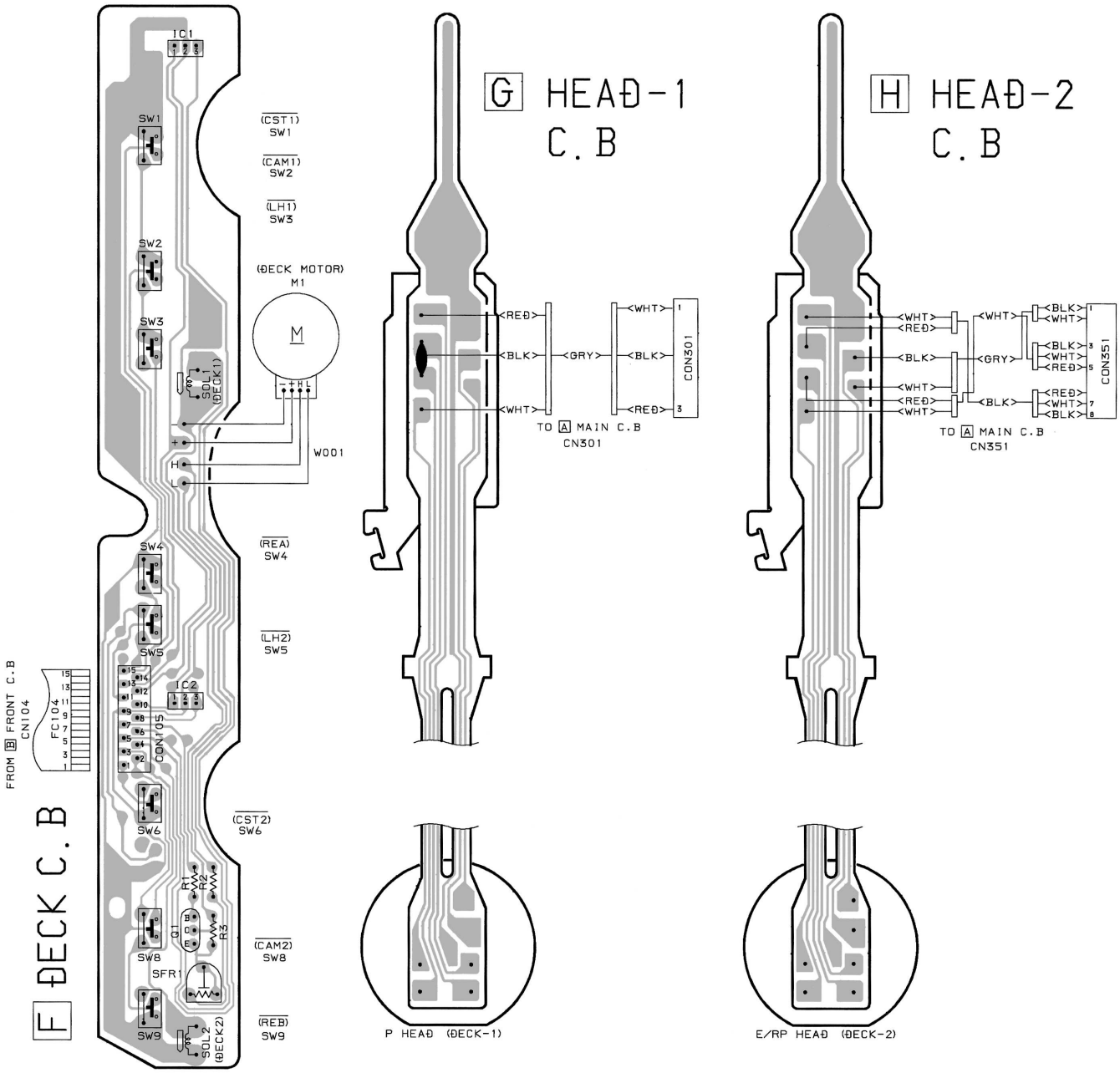
RY001

S001
AC VOLTAGE
120V
220~230V
240V


WH001
TO A MAIN C.B
CNA001
PT C.B <HS>
T002
T001
220V AC
50/60HZ
RY001
PT002
PT001
CN001
CN002
WH101
FROM C AMP C.B
CNA101
Q001
Q002
R004
R013
R014
R016
R010
R008
R017
C001
C002
C003
C004
C005
C006
C007
C008
C009
C010
C011
C012
C013

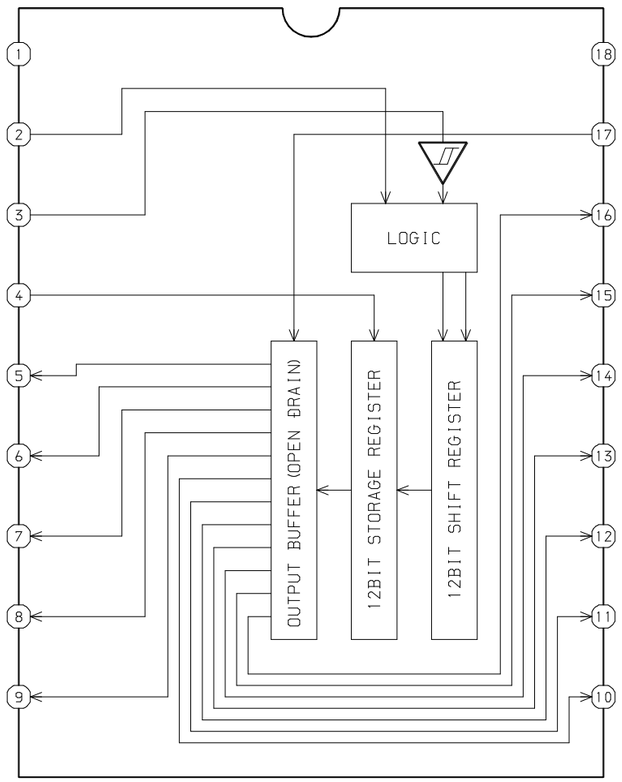
SCHEMATIC DIAGRAM - 8 (PT: HA,HR,HS)



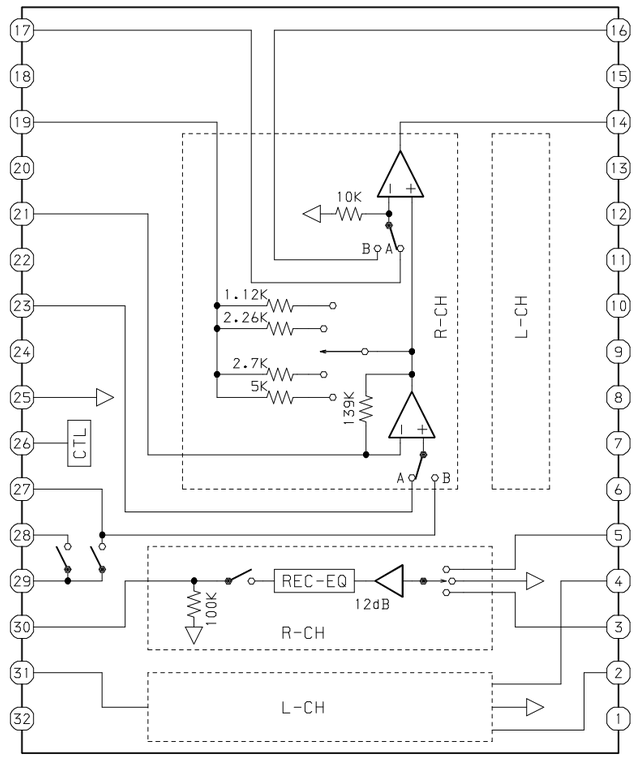

F DECK C.B
G HEAD-1 C.B
H HEAD-2 C.B
FROM B FRONT C.B
CN104
FC104
CON105
IC1
IC2
SW1
SW2
SW3
SW4
SW5
SW6
SW8
SW9
(CST1) SW1
(CAM1) SW2
(LH1) SW3
(DECK MOTOR) M1
M
SOL1 (DECK1)
W001
(REA) SW4
(LH2) SW5
(CST2) SW6
(CAM2) SW8
(REB) SW9
SOL2 (DECK2)
R1
R2
R3
Q1
SFR1
<RED>
<BLK>
<WHT>
<GRY>
CON301
TO A MAIN C.B CN301
CON351
TO A MAIN C.B CN351
P HEAD (DECK-1)
E/RP HEAD (DECK-2)

IC BLOCK DIAGRAM

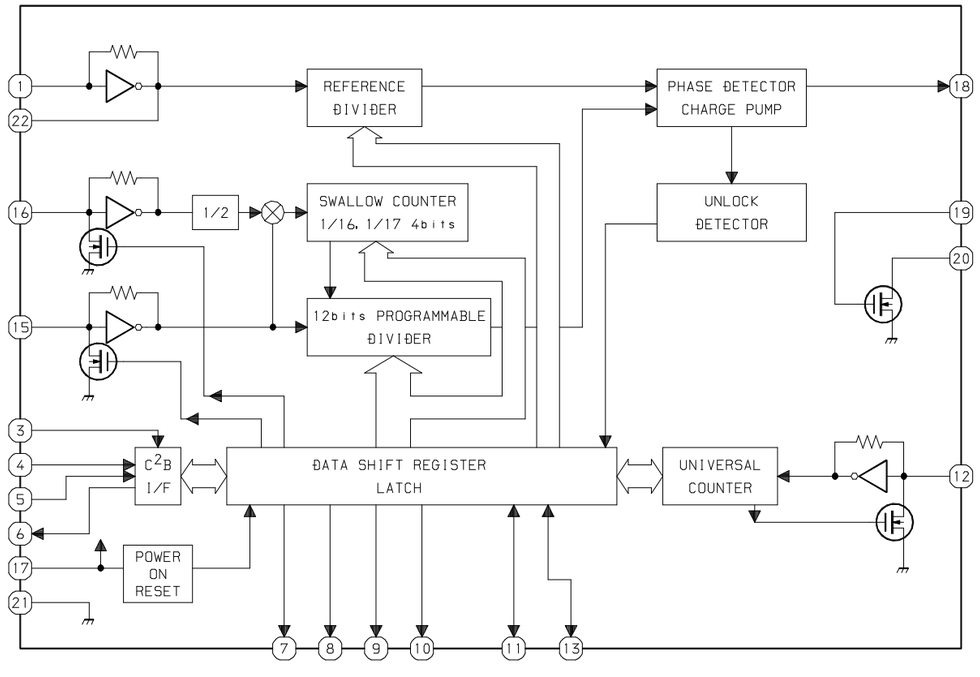
IC, BU2092F



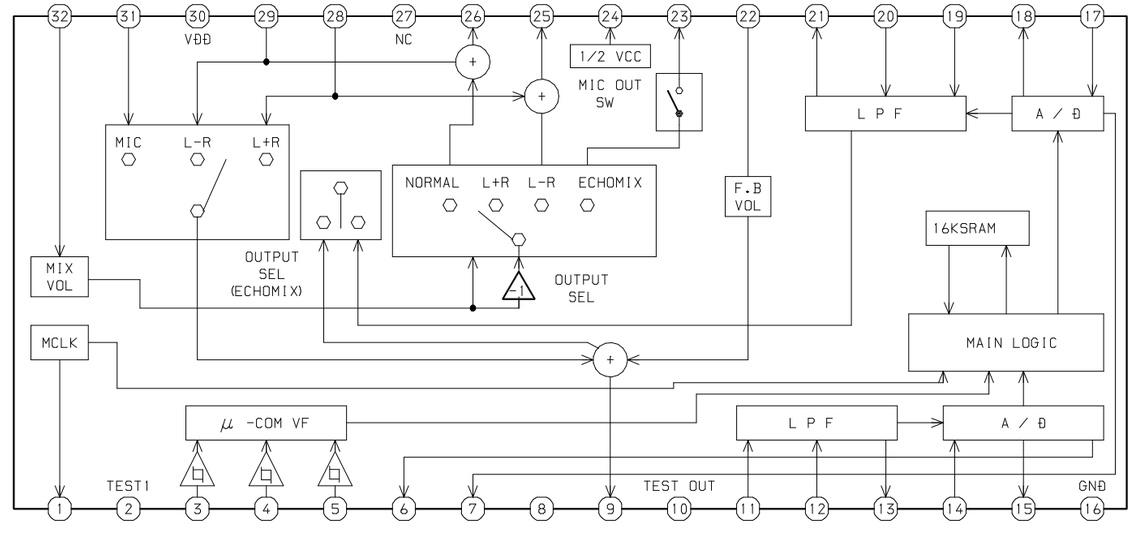
IC, BA7762AFS



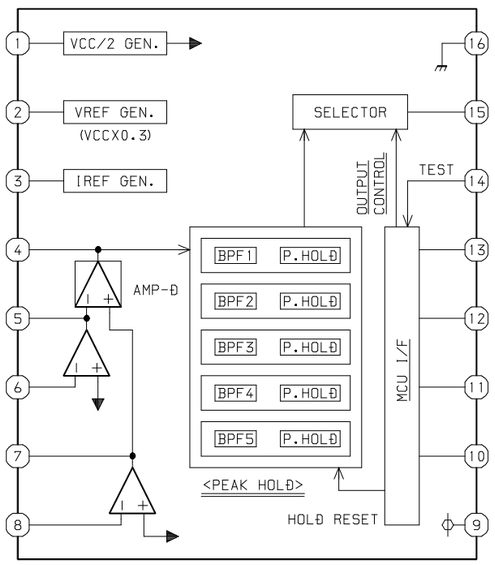
IC, LC72131Đ



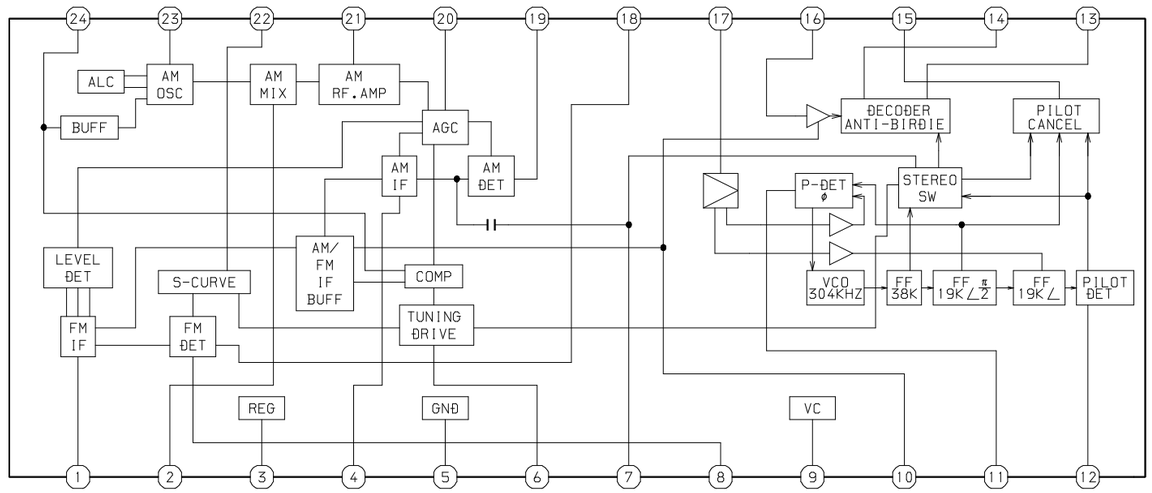
IC, M65849BFP631Đ



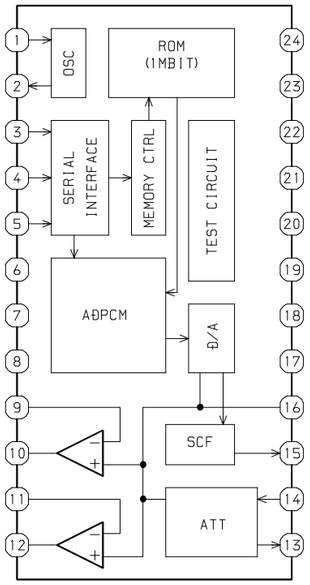
IC, M61506FP



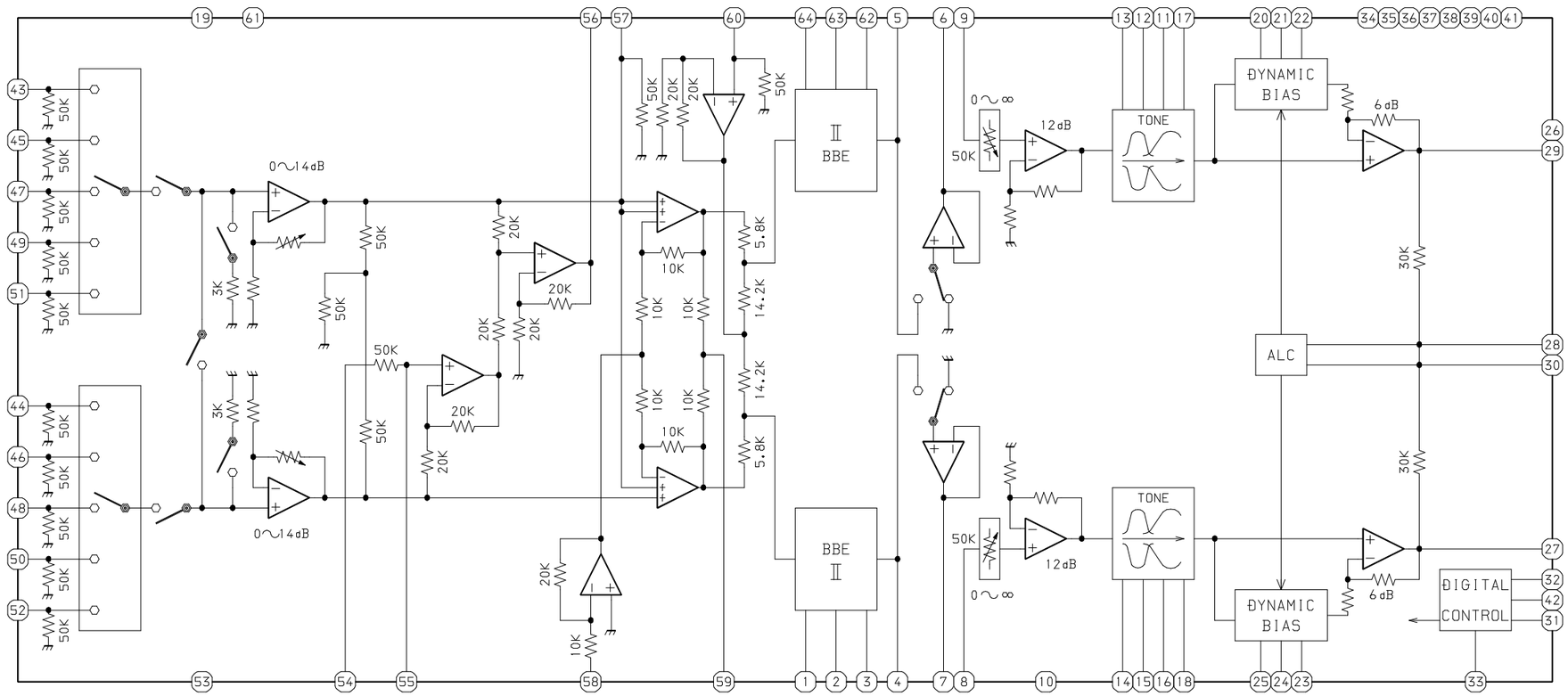
IC, LA1843



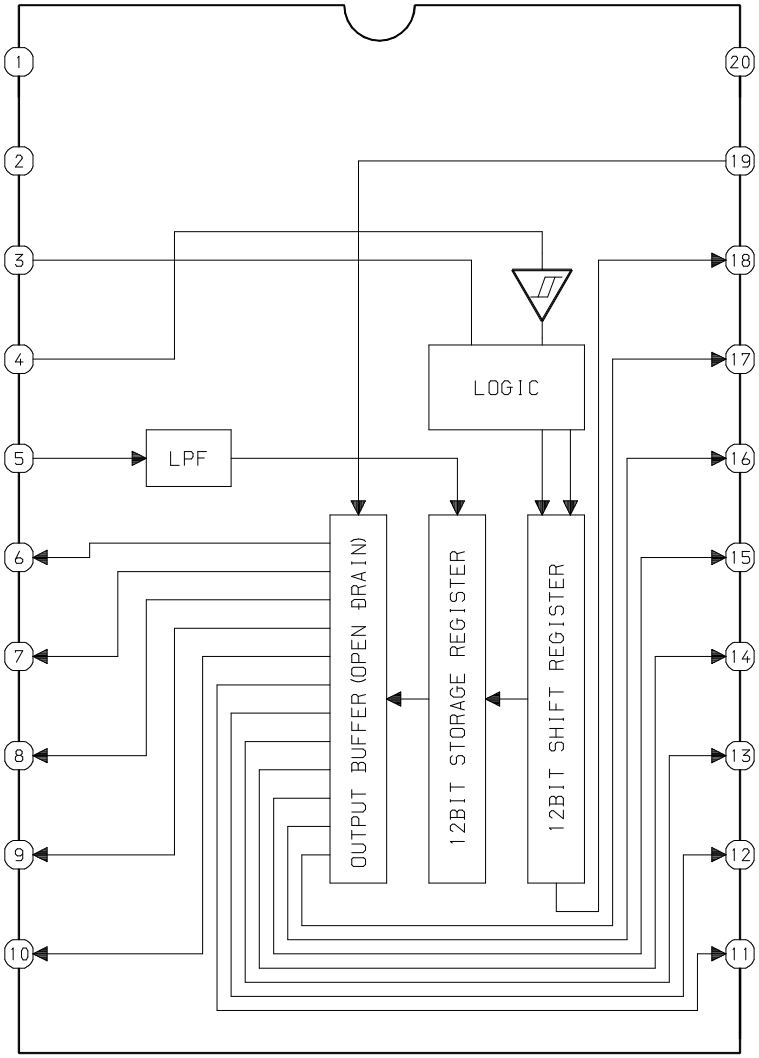
IC, BU9990-03FS



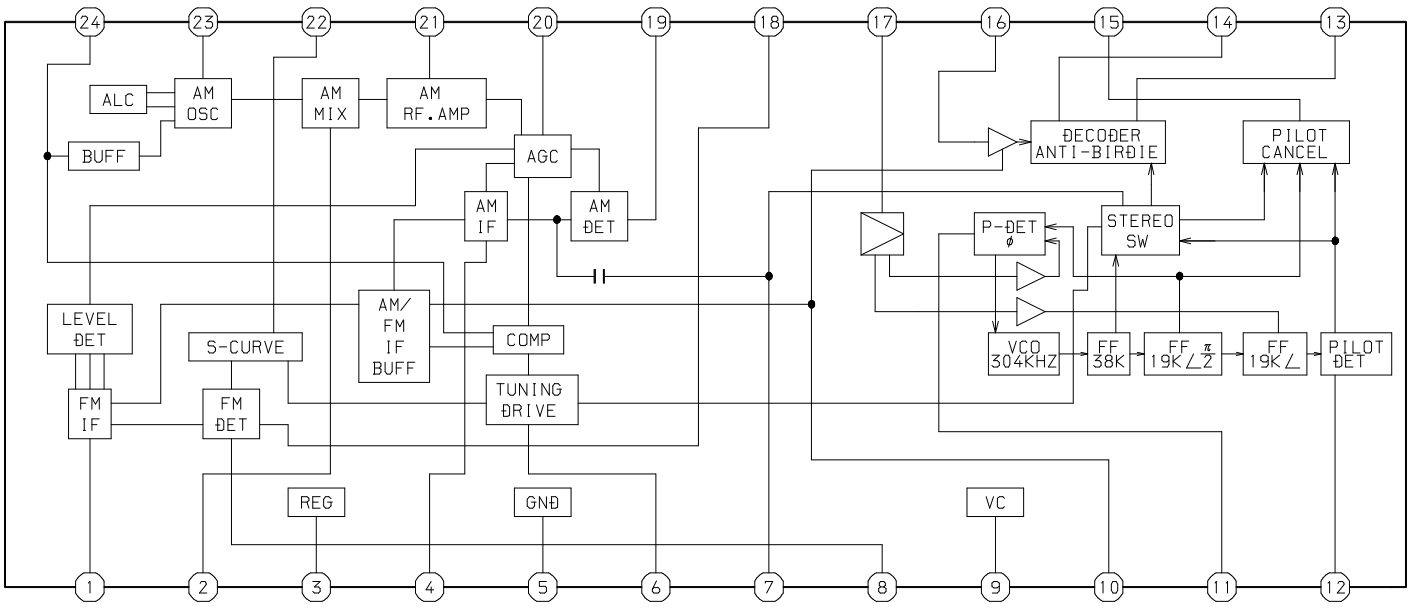
IC, BD3876KS2



IC, BU2099FV

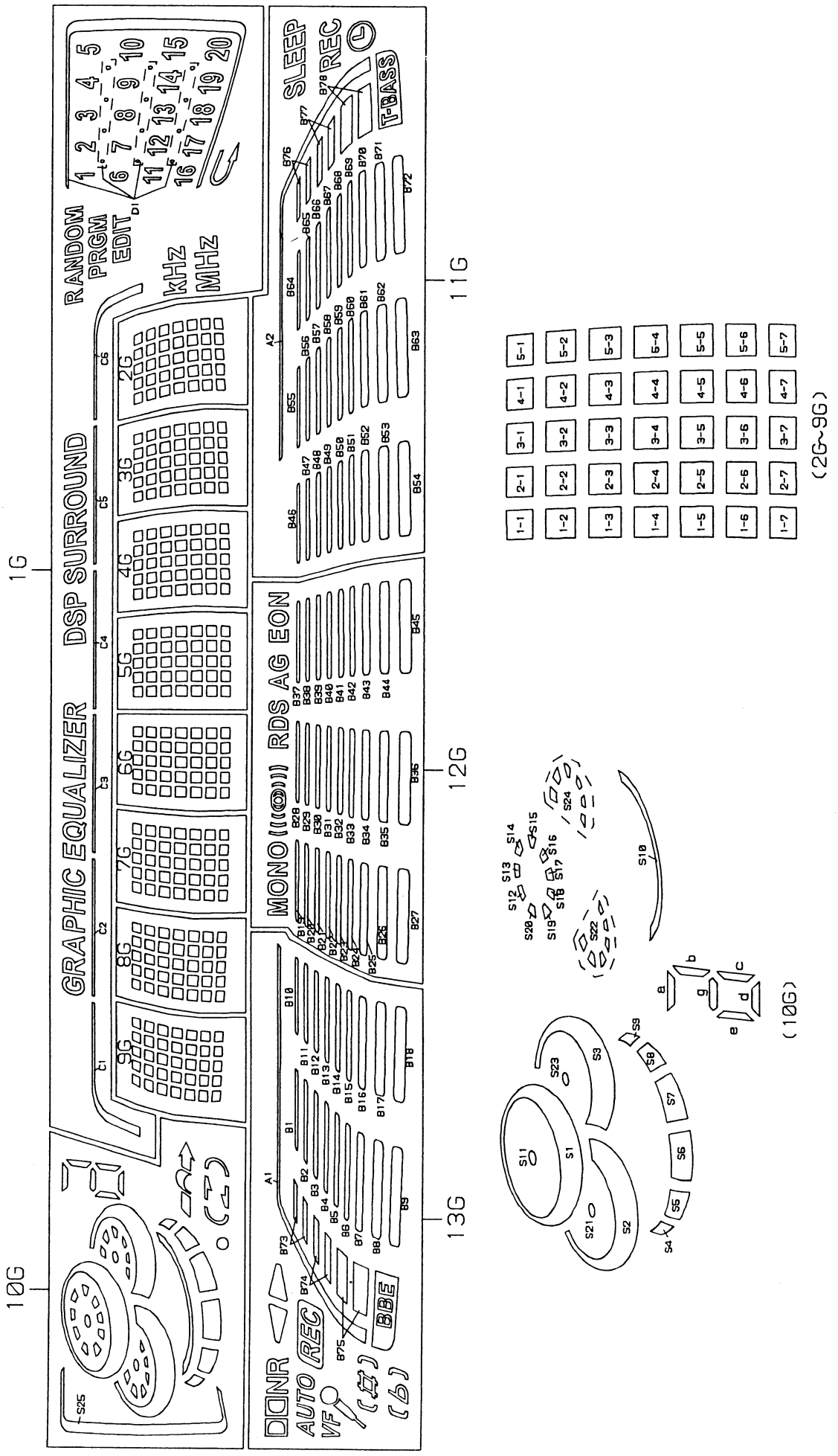


IC, LA1844L-A



FL (BJ754 GNK) GRID ASSIGNMENT AND ANODE CONNECTION

GRID ASSIGNMENT



ANODE CONNECTION

	13G	12G	11G	10G	9G~2G	1G
P1	# b	B27	B54	b	1-1	DSP SURROUND
P2	((b))	B36	B63	c	2-1	GRAPHIC EQUALIZER
P3	((#))	B45	B72	a , g , d	3-1	C6
P4		B26	B53	e	4-1	C5
P5		B35	B62	S1	5-1	C4
P6	REC	B44	B71	S12	1-2	C3
P7	D NR	B25	B52	S13	2-2	C2
P8	AUTO	B34	B61	S20	3-2	C1
P9	VF	B43	B70	S14	4-2	RANDOM
P10	A1	B24	B51	S11	5-2	PRGM
P11	BBE	B33	B60	S19	1-3	EDIT
P12	B75	B42	B69	S15	2-3	
P13	B74	B23	B50	S18	3-3	kHz
P14	B73	B32	B59	S16	4-3	MHz
P15	B9	B41	B68	S17	5-3	16
P16	B18	B22	B49	S3	1-4	11
P17	B8	B31	B58	S24	2-4	6
P18	B17	B40	B67	S23	3-4	1
P19	B7	B21	B48	S2	4-4	17
P20	B16	B30	B57	S22	5-4	12
P21	B6	B39	B66	S21	1-5	7
P22	B15	B20	B47	S10	2-5	2
P23	B5	B29	B56	S9	3-5	18
P24	B14	B38	B65	S8	4-5	13
P25	B4	B19	B46	S7	5-5	8
P26	B13	B28	B55	S6	1-6	3
P27	B3	B37	B64	S5	2-6	19
P28	B12	MONO	T-BASS	S4	3-6	14
P29	B2	((( )))	A2		4-6	9
P30	B11	RDS	B78		5-6	4
P31	B1	AG	B77		1-7	20
P32	B10	EON	B76		2-7	15
P33	-	-	SLEEP		3-7	10
P34	-	-	REC	S25	4-7	5
P35	-	-		-	5-7	D1

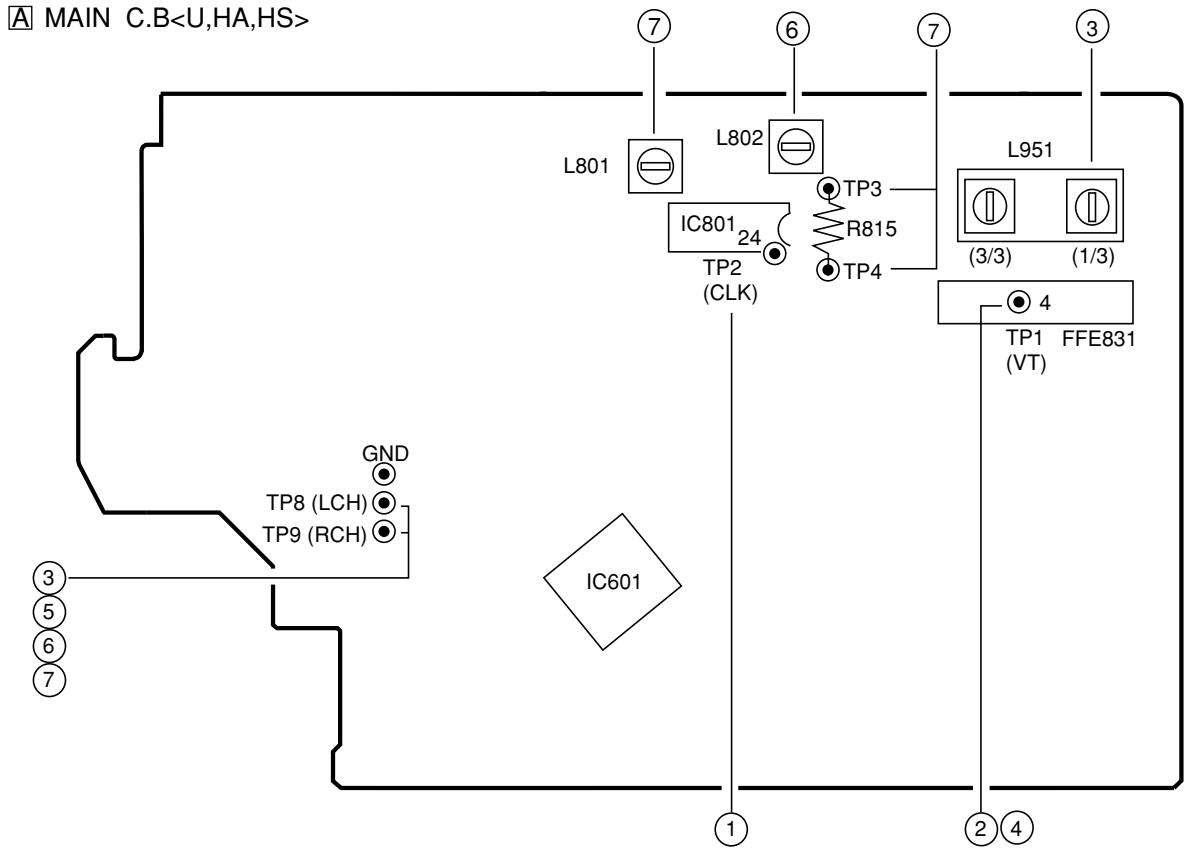
IC DESCRIPTION

IC, LC876564W-5P35

Pin No.	Pin Name	I/O	Description
1	O-CLK	O	Common serial CLOCK output.
2	O-DATA	O	Common Serial DATA output.
3	O-STB	O	Common serial STROBE output.
4	O-POWER	O	System power ON/OFF output.
5	O-STB	O	Strobe output for shift register.
6	$\overline{\text{O-RYM-CS}}$	O	Chip select output for rhythm IC.
7	O-PLL-CE	O	Chip enable output for PLL.
8	I-STEREO	I	Stereo detect input.
9	$\overline{\text{O-CLK SHIFT}}$	O	Tuner clock shift output (active L).
10	$\overline{\text{I-HP-MUTE}}$	I	Headphones connect detect input.
11	$\overline{\text{RESET}}$	I	Reset input.
12	I-DISH	I	CD turn table photo sensor input.
13	I-SPEANA	I	Spectrum analyger level AD input.
14	VSS1	–	Connected to GND.
15	CF 1	–	9.43MHz oscillator circuit.
16	CF2		
17	VDD1	–	Power supply.
18	I-HOLD	I	Power supply voltage detect A/D input.
19 ~ 21	KEY 1 ~ 3	I	KEY 1 ~ 3 A/D input.
22	I-CDSW	I	CD mechanism SW A/D input.
23	I-RTVR	I	Rotary encorder A/D input for VR.
24	I-JOG	I	Rotary encorder A/D input for MULTI JOG.
25	I-MIC	I	MIC input for auto vocal fader.
26	I-$\overline{\text{MS}}$	I	DECK MS detect input
27	I-TM-BASE	I	Timebase clock (8Hz) input.
28	I-WRQ	I	CD WRQ input.
29	$\overline{\text{I-RMC}}$	I	Remote control signal input. Active: "L".
30 ~ 42	G13 ~ G1	O	FL grid G13 ~ G1 output.
43 ~ 45	P35 ~ P33	O	FL segment P35 ~ P33 output.
46	VDD3	–	Power supply.
47	P32/SPEANA A	O	FL segment P32 output / Spectrum analyger band select output (A) .
48	P31/SPEANA B	O	FL segment P31 output / Spectrum analyger band select output (B) .
49	P30/SPEANA C	O	FL segment P30 output / Spectrum analyger band select output (C).
50	P29/$\overline{\text{BEAT-M}}$	O/I	FL segment P29 output / Beat master less diode input (not used).
51	-VP	–	Connected to -VFL.
52	P28/AM-ST	O/I	FL segment P28 output / AM-STEREO diode input (not used).
53	P27/LW	O/I	FL segment P27 output / LW diode input (not used).
54	P26/SW	O/I	FL segment P26 output / SW diode input (not used).
55	P25/FM1	O/I	FL segment P25 output / FM1 diode input (not used).
56	P24/KASINO	O/I	FL segment P24 output / Initial KASINO DEMO diode input.
57	P23/ECO	O/I	FL segment P23 output / Initial ECO mode less diode input.

Pin No.	Pin Name	I/O	Description
58	P22/$\overline{\text{DSP}}$	O/I	FL segment P22 output / DSP less diode input.
59	P21/PRO/5.1	O/I	FL segment P21 output / PRO-LOGIC 5.1CH diode input (not used).
60	P20	O	FL segment P20 output.
61	P19/DOBLY	O/I	FL segment P19 output / Deck DOBLY diode input (not used).
62	P18	O	FL segment P18 output.
63	P17/AM10K	O/I	FL segment P17 output / AM10 change diode input (not used).
64	P16/$\overline{\text{CST2}}$	O/I	FL segment P16 output / Deck 2 cassette detect sw input.
65	P15/REB	O/I	FL segment P15 output / Deck side B record permission sw input.
66	P14/CAM2	O/I	FL segment P14 output / Deck 2 CAM sw input.
67	P13/AUTO1	O/I	FL segment P13 output / Deck 1 auto stop input.
68	P12/AUTO2	O/I	FL segment P12 output / Deck 2 auto stop input.
69	P11/$\overline{\text{CAM1}}$	O/I	FL segment P11 output / Deck 1 CAM sw input.
70	P10/CST1	O/I	FL segment P10 output / Deck 1 cassette detect sw input.
71	P9/$\overline{\text{REA}}$	O/I	FL segment P9 output / Deck side A record permission sw input.
72	VDD4	-	Power supply.
73	P8/$\overline{\text{AC-DEMO}}$	O/I	FL segment P8 output / Demo less diode input.
74 ~ 80	P7 ~ 1	O	FL segment output (P7 ~ 1).
81	NC	-	Not connected.
82	O-TRAY CLOSE	O	CD tray close output.
83	O-TRAY OPEN	O	CD tray open output.
84	I-SUBQ	O	CD SUBQ detect input.
85	O-DISH-FWD	O	CD turn table forward revolution output.
86	O-DISH-REV	O	CD turn table reverse revolution output.
87	O-DATA	O	CD data output.
88	$\overline{\text{O-LED-STBY}}$	O	STBY LED on output (STBY LED on during O-POWER OFF).
89	VSS2	-	Connected to GND.
90	VDD2	-	Power supply.
91	$\overline{\text{O-MOTOR}}$	O	DECK motor output.
92	O-MUTE	O	System mute ON/OFF output.
93	$\overline{\text{O-SOL1}}$	O	DECK1 plunger $\overline{\text{ON}}$/OFF output.
94	$\overline{\text{O-SOL2}}$	O	DECK2 plunger $\overline{\text{ON}}$/OFF output.
95	I-DRF	I	CD DRF input.
96	I-IFC	I	Tuner IFC input.
97	NC	-	Not connected.
98	O-CD CLK	O	CD CLK output.
99	O-CD-CE	O	CD CD output.
100	O-KSCAN	O	Key scan timing output.

ADJUSTMENT - 1 (TUNER: U,HA,HS)



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to AM 1710kHz and check that the test point is 2160kHz ± 45Hz.

2. AM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to AM 1710kHz and AM 530kHz and check that the test point is less than 8.5V(1710kHz) and more than 0.6V(530kHz).

3. AM Tracking Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L951(1/3)..... 999kHz
   Method : Set to AM 999kHz and adjust L951(1/3) so that the test point is max.

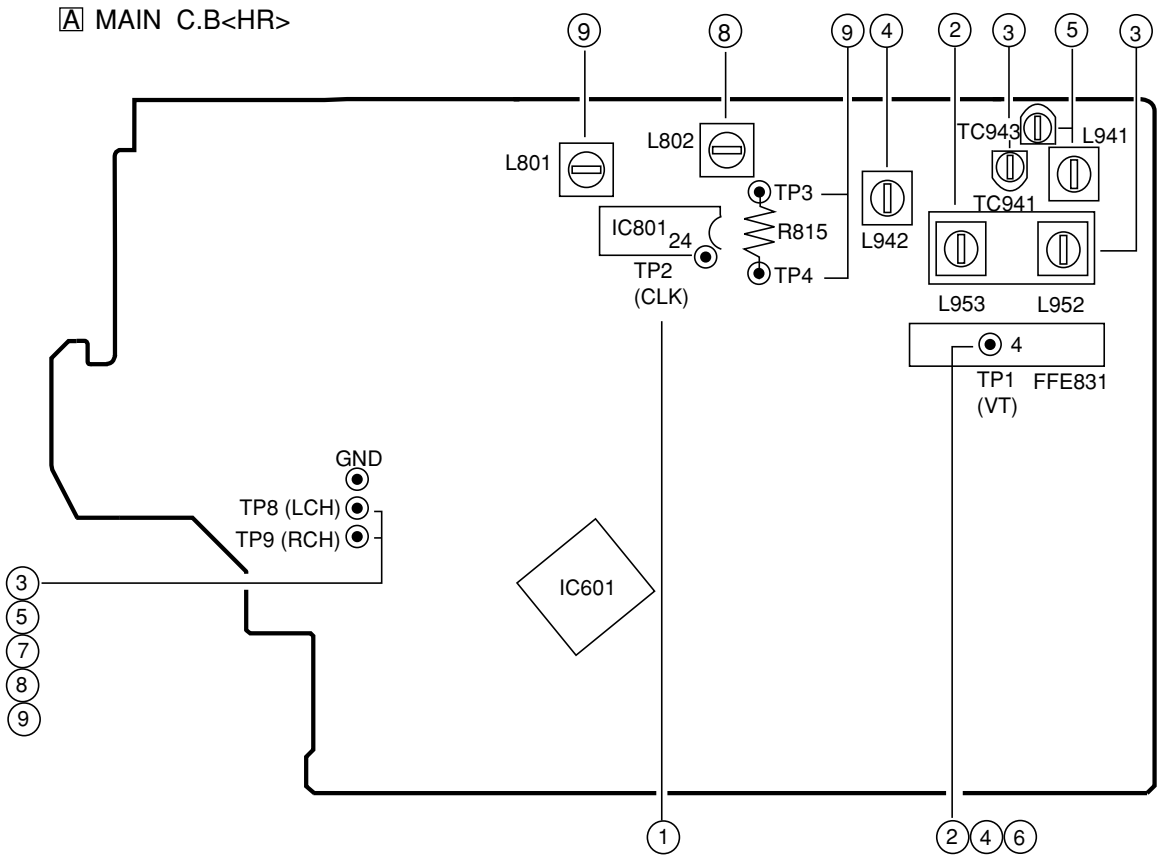
4. FM VT Check
   Settings : • Test point : TP1 (VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Set to FM 87.5MHz and check that the test point is more than 0.5V.

5. FM Tracking Check
   Settings : • Test point : TP8(Lch), TP9(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.

6. AM IF Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : L802
   • Input level : Variable
   Method : Adjust L802 so that the output becomes max.

7. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC Balance)
   TP8(Lch), TP9(Rch) (Distortion)
   • Adjustment location : L801
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 0.3V. Next, check that the distortion is minimum.

ADJUSTMENT - 2 (TUNER: HR)



< TUNER SECTION >

1. Clock Frequency Check
   Settings : • Test point : TP2 (CLK)
   Method : Set to MW 1602kHz and check that the test point is 2052kHz ± 45Hz.

2. MW VT Check
   Settings : • Test point : TP1 (VT)
   • Adjustment location : L953
   Method : Set to MW 1602kHz and adjust L953 so that the test point become 8.0V ± 0.05V. Then set to MW 531kHz and check that the test point is more than 0.3V.

3. MW Tracking Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location :
   L952..... 603kHz
   TC941..... 1404kHz
   Method : Set up TC941 to center before adjustment. Adjust L952 so that level at 603kHz become maximum. Then adjust TC941 so that the level at 1404kHz becomes maximum.

4. SW VT Adjustment
   Settings : • Test point : TP1(VT)
   • Adjustment location : L942
   Method : Set to SW 17.9MHz and adjust L942 so that the test point becomes 7.0V ± 0.05V. Then set to SW 5.9MHz and check that the test point is more than 0.3V.

5. SW Tracking Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Ajustment location :
   L941..... 5.9MHz
   TC943.....17.9MHz
   Method : Set up TC943 to center before adjustment. Adjust L941 so that level at 5.9MHz becomes maximum. Then adjust TC943 so that the level at 17.9MHz becomes maximum.

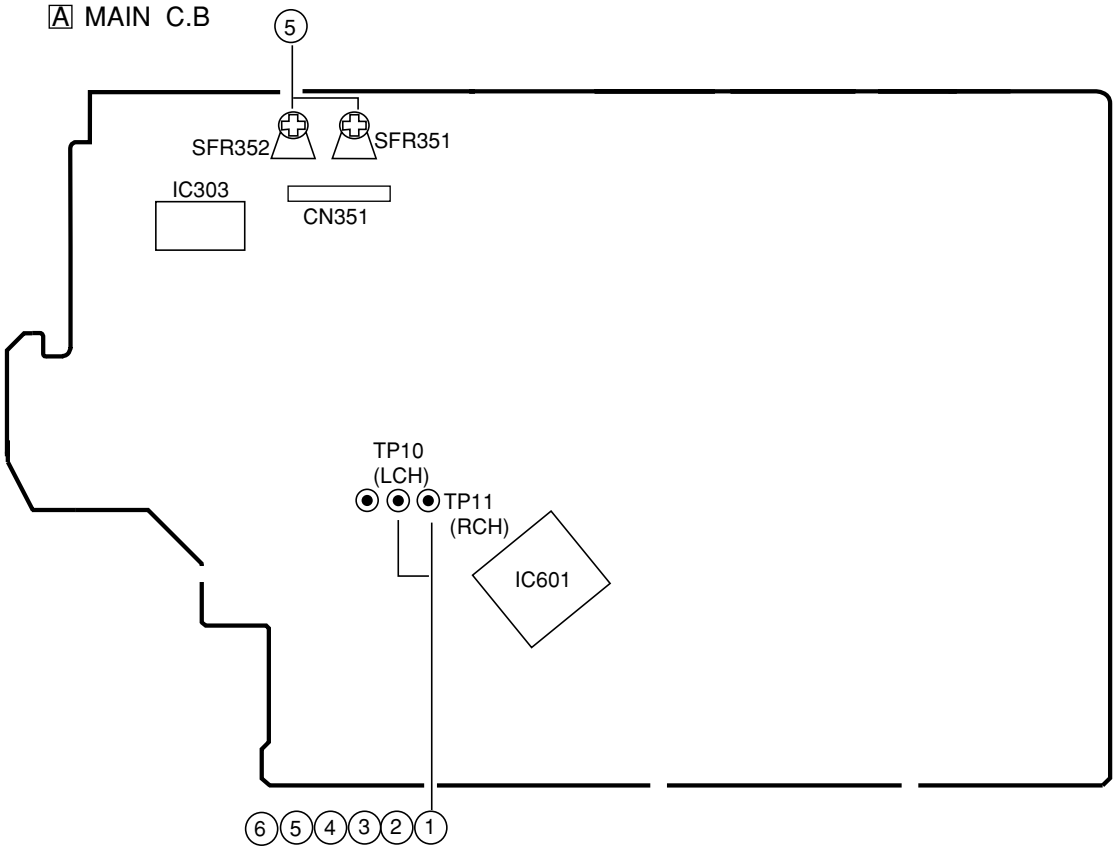
6. FM VT Check
   Settings : • Test point : TP1(VT)
   Method : Set to FM 108.0MHz and check that the test point is less than 8.0V. Then set to FM 87.5MHz and check that the test point is more than 0.5V.

7. FM Tracking Check
   Settings : • Test point : TP8(Lch), TP9(Rch)
   Method : Set to FM 98.0MHz and check that the test point is less than 9.0dBμV.

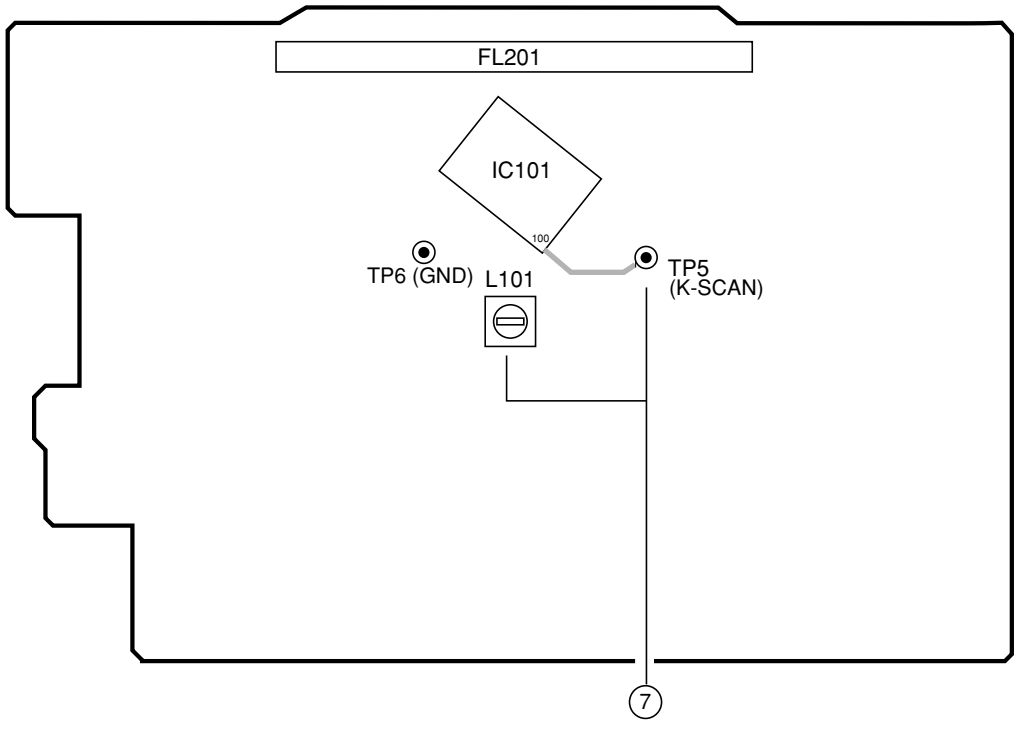
8. AM IF Adjustment
   Settings : • Test point : TP8(Lch), TP9(Rch)
   • Adjustment location : L802
   • Input level : Variable
   Method : Adjust L802 so that the output becomes maximum.

9. DC Balance / Mono Distortion Adjustment
   Settings : • Test point : TP3, TP4(DC Balance)
   TP8(Lch), TP9(Rch)(Distortion)
   • Adjustment location : L801
   • Input level : 60dBμV
   Method : Set to FM 98.0MHz and adjust L801 so that the voltage between TP3 and TP4 becomes 0V ± 0.3V. Next, check that the distortion is minimum.

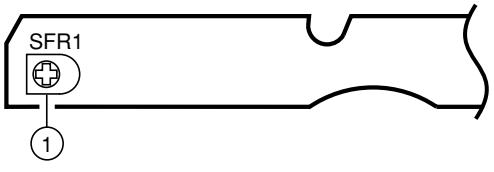
Ⓐ MAIN C.B



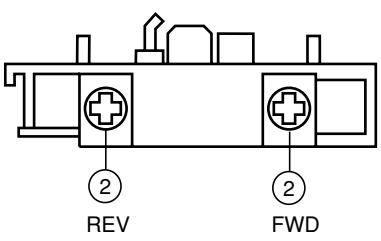
Ⓑ FRONT C.B



Ⓕ DECK C.B



DECK-1 P,DECK-2 R/P/E HEAD



< DECK SECTION >

1. Tape Speed Adjustment (DECK 2)
   Settings : • Test tape : TTA–100(3kHz)
   • Test point : TP10(Lch), TP11(Rch)
   • Adjustment location : SFR1
   Method : Play back the test tape and adjust SFR1 so that the frequency counter reads 3000Hz ± 5Hz(FWD) and ± 45Hz(REV) with respect to forward speed.

2. Head Azimuth Adjustment (DECK 1, DECK 2)
   Settings : • Test tape : TTA–300 (315/10kHz)
   • Test point : TP10(Lch), TP11(Rch)
   • Adjustment location : Head azimuth adjustment screw
   Method : Play back the 10kHz signal of the test tape and adjust screw so that the output becomes maximum. Next, perform on each FWD PLAY and REV PLAY mode.

3. PB Frequency Response Check (DECK 1, DECK 2)
   Settings : • Test tape : TTA–300 (315/10kHz)
   • Test point : TP10(Lch), TP11(Rch)
   Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output ratio of the 10kHz signal with respect to that of the 315Hz signal is within 0 ± 3dB.

4. REC/PB Frequency Response Adjustment (DECK 2)
   Settings : • Test tape : TTA–602 (Normal)
   • Test point : TP10(Lch), TP11(Rch)
   • Input signal : 1kHz / 10kHz (LINE IN)
   • Adjustment location : SFR351 (Lch) SFR352 (Rch)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 9.0mV. Record and play back the 1kHz and 10kHz signals and adjust SFRs so that the output level of the 10kHz signals becomes 0dB ± 0.5dB with respect to that of the 1kHz signal.

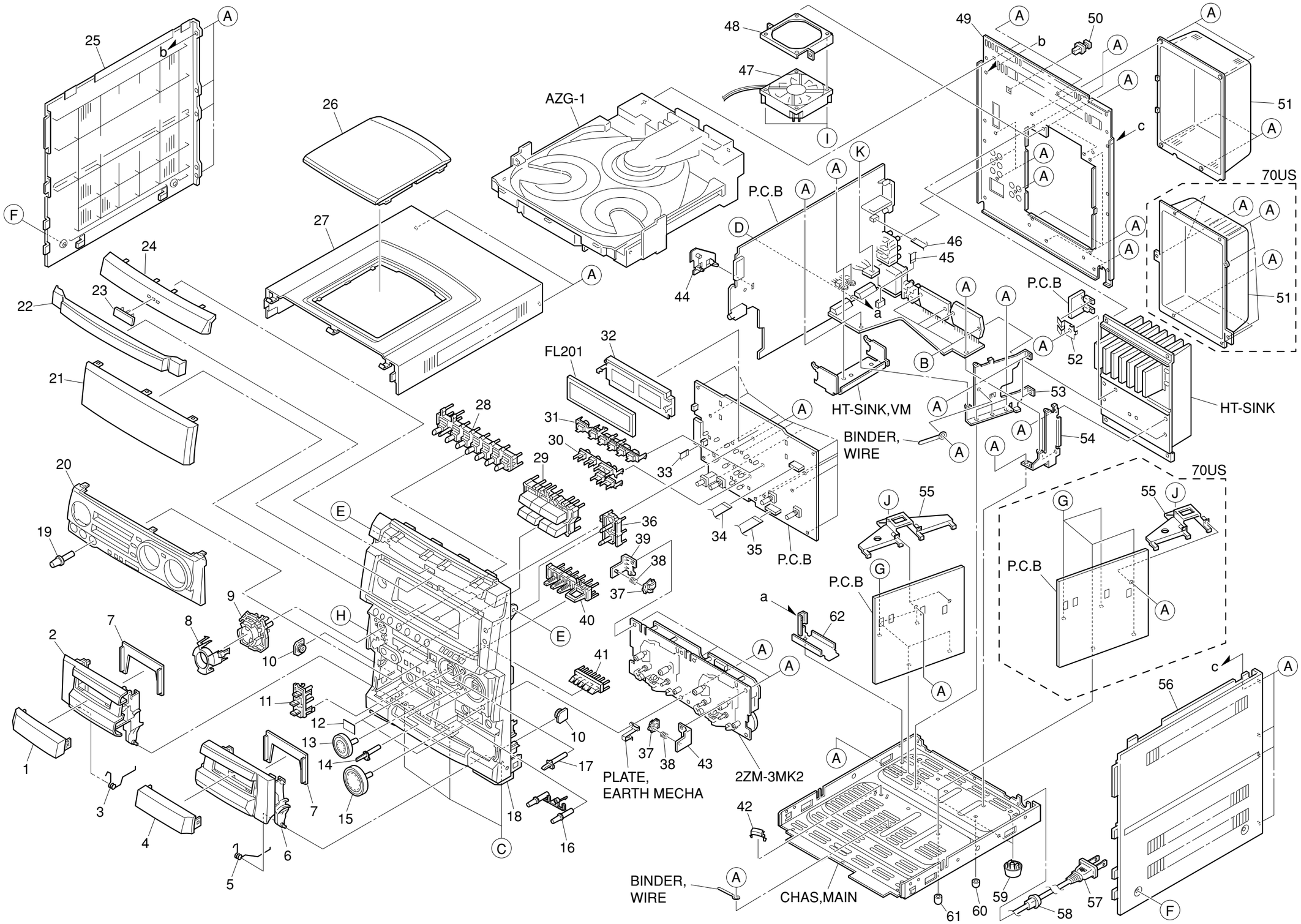
5. REC/PB Frequency response Check (DECK 2)
   Settings : • Test tape : TTA-615 (CrO_2)
   • Test point : TP10(Lch), TP11(Rch)
   • Input signal : 1kHz/10kHz (LINE IN)
   Method : Apply a 1kHz signal and REC mode. Then Adjust OSC attenuator so that the output level at the test points becomes 9.0mV. Record and play back the 1kHz and 10kHz signals and check that the output is 0dB ± 2dB.

6. REC/PB Sensitivity Check (DECK 2)
   Settings : • Test tape : TTA-615 (CrO_2)
   • Test point : TP10(Lch), TP11(Rch)
   • Input signal : 1kHz (LINE IN)
   Method : Apply a 1kHz signal and REC mode. Then adjust OSC attenuator so that the output level at the test points becomes 90mV. Record and play back the 1kHz signal and check that the output is -1dB ± 3dB.

<FRONT SECTION>

7. µ-CON OSC Adjustment
   Settings : • Test point : TP5(K-SCAN)
   • Adjustment location : L101
   Method : Insert AC plug with pressing TUNER function key. Adjust L101 so that the frequency across the test point is 208.8Hz ± 0.2Hz.

MECHANICAL EXPLODED VIEW 1 / 1



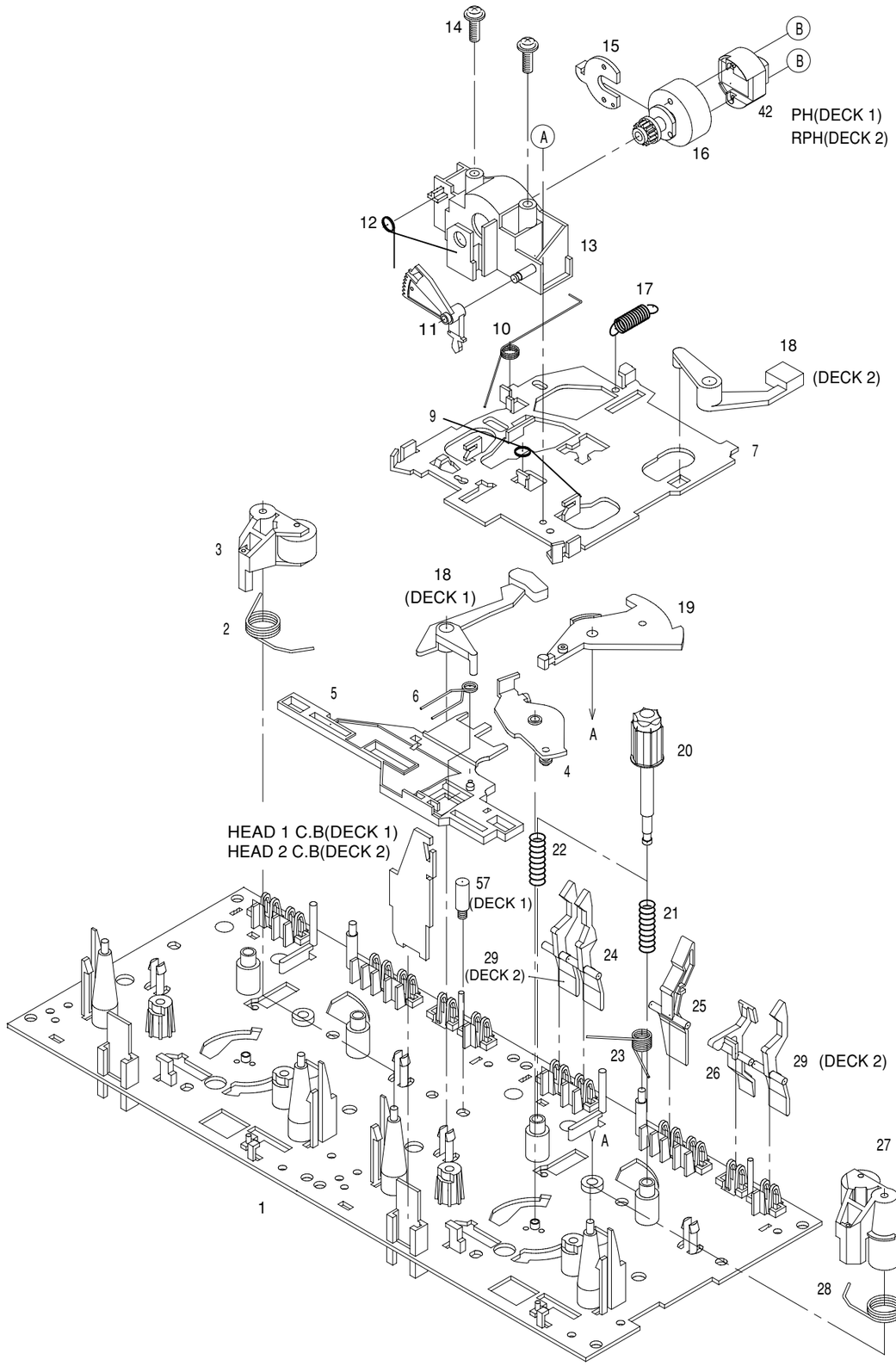
MECHANICAL PARTS LIST 1 / 1

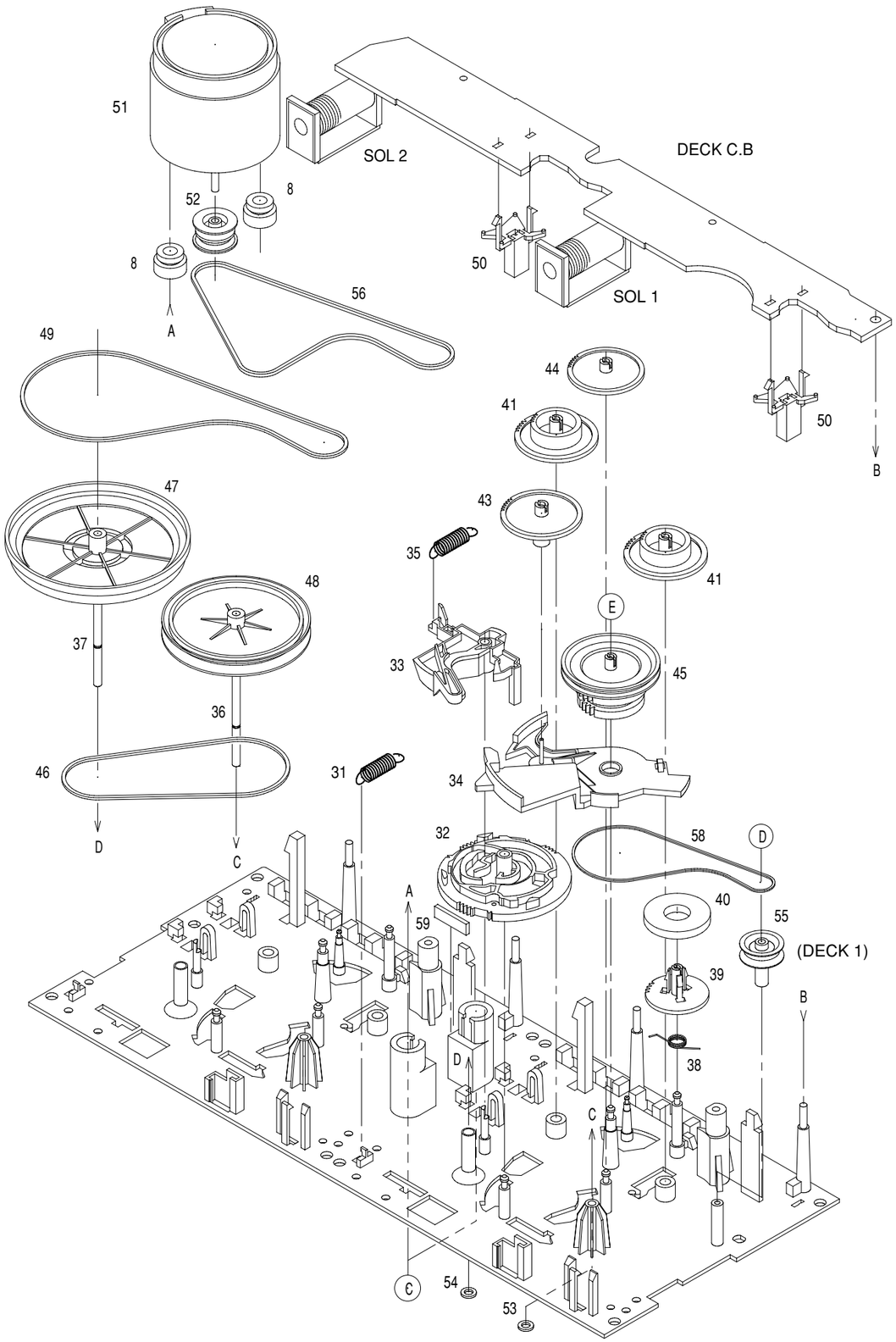
REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8A-NF7-010-010		WINDOW,CASS 1
2	8A-NF7-003-010		BOX,CASS 1
3	82-NF5-218-010		SPR-T,EJECT 1 (SIN)
4	8A-NF7-011-010		WINDOW,CASS 2
5	82-NF5-219-010		SPR-T,EJECT 2 (SIN)
6	8A-NF7-004-010		BOX,CASS 2
7	86-NF6-061-010		REFLECTOR,CASS
8	8A-NF7-012-010		PANEL,DIRECT
9	8A-NF7-041-010		KEY,ASSY CD
10	8Z-NF6-210-010		DMPR,150 N
11	8A-NF7-029-010		KEY,GEQ
12	81-532-080-010		LABEL, CASS. COMPT
13	8A-NF7-048-010		KNOB,RTRY ASSY JOG
14	8A-NF7-024-010		KEY,SURROUND<HR,HS>
15	8A-NF7-049-010		KNOB,RTRY ASSY VOL
16	8A-NF7-034-010		KEY,MIC<HR,HS>
17	8A-NF7-023-010		KEY,ENTER
18	8A-NF7-081-010		CABI,FR HR<HR,HS>
18	8A-NF7-083-010		CABI,FR LH<EXCEPT U,HR,HS>
18	8A-NF7-001-010		CABI,FR U<U>
19	8A-NF7-015-010		KNOB,RTRY MIC<EXCEPT HR,HS>
20	8A-NF7-101-010		PANEL,ASSY FR HR<HR,HS>
20	8A-NF7-020-010		PANEL,ASSY FR U<EXCEPT HR,HS>
21	8A-NF7-090-010		WINDOW,DISP HA<HA>
21	8A-NF7-091-010		WINDOW,DISP HR<HR,HS>
21	8A-NF7-006-010		WINDOW,DISP U<U>
22	8A-NF7-005-010		PANEL,TRAY U
23	87-CE3-023-010		BADGE,AIWA 30N SILV
24	8A-NF7-008-010		PANEL,CD
25	8A-NF8-007-010		PANEL,LEFT V-2
26	8A-NF8-006-010		WINDOW,TOP
27	8A-NF8-005-010		PANEL,TOP
28	8A-NF7-035-010		KEY,ASSY FUN
29	8A-NF7-026-010		KEY,ASSY OPE
30	8A-NF7-214-010		GUIDE,OPE
31	8A-NF7-213-010		GUIDE,FUN
32	87-NF5-203-110		GUIDE,FL(*)
33	85-NF7-605-010		CONN ASSY 4P V 8MM
34	85-NF5-618-010		CABLE,FFC 13P-1.25
35	88-915-171-110		FF-CABLE, 15P 1.25<U>
35	88-915-111-110		FF-CABLE,15P 1.25<HR,HA,HS>
36	8A-NF7-021-010		KEY,BBE
37	82-NF5-229-010		PLATE,LOCK
38	86-NF9-224-010		SPR-C,LOCK
39	87-NF4-216-010		HLDR,LOCK 1
40	8A-NF7-046-010		KEY,KARAOKE
41	8A-NF7-022-010		KEY,SPICE<EXCEPT U>
42	87-NF4-221-010		HLDR,CABLE
43	87-NF4-217-110		HLDR,LOCK 2
44	8A-NF8-206-010		HLDR,PWB M
45	8A-NF8-656-010		CONN ASSY 5P TID-A 400
46	85-NF5-617-010		CABLE,FFC 6P-1.25
47	87-A91-711-010		FAN, 3110GL-B4W-B34-H02<EXCEPT U>
48	8A-NF6-219-010		HLDR,FAN<EXCEPT U>
49	8A-NF7-152-010		PANEL,REAR HASM-F<HA>
49	8A-NF7-141-010		PANEL,REAR HRJSM-F<HR>
49	8A-NF7-155-010		PANEL,REAR HSSM-F<HS>
49	8A-NF7-071-010		PANEL,REAR US<U>
50	84-ZG1-245-210		CAP,OPTICAL
51	8A-NF7-053-010		COVER, REAR H<EXCEPT U>
51	8A-NF7-129-010		COVER, REAR STEEL UJ<U>
52	8A-NF7-226-010		HLDR,IC2-T2<HR,HA,HS>
53	8A-NF7-207-010		HLDR,HT L
54	8A-NF7-208-010		HLDR,HT R
55	8A-NF6-217-010		HLDR,PWB PT<EXCEPT U>
55	8A-NF7-225-010		HLDR,PWB PT 85S<U>
56	8A-NF7-112-010		PANEL,RIGHT V-2
⚠ 57	87-A80-105-010		AC CORD ASSY,AZ<HA>
⚠ 57	87-A80-092-010		AC CORD ASSY,E BLK SUN<HR>
⚠ 57	87-A80-110-010		AC CORD ASSY,U SPT-2W<U>
⚠ 57	87-A80-155-010		AC CORD ASSY,HS TS<HS>
58	87-085-185-010		BUSHING, AC CORD (E)<EXCEPT U>
58	87-A91-422-010		BUSHING,AC CORD(U)<U>
59	87-085-221-010		FOOT,H13.5<U>
59	87-085-221-010		FOOT,H13.5<HR,HA,HS>
60	8Z-NB8-254-010		COVER, PL M3
61	8Z-NB8-240-010		COVER, PL
62	8A-NF7-209-010		HLDR,PWB-M BTM
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-581-010		TAPPING SCREW, BVT2+3-15
C	87-067-688-010		BVTT+3-6
D	87-NF4-224-010		S-SCREW,IT3B+3-8 CU
E	87-721-097-410		QT2+3-12 GLD
F	87-067-641-010		UTT2+3-8(W/O SLOT)BL
G	87-078-191-010		S-SCREW,IT+4-10
H	87-723-096-410		QT2+3-10W/O SLOT BL
I	87-067-689-010		TAPPING SCREW, BVTT+3-8<HR,HA,HS>
J	87-067-579-010		TAPPING SCREW, BVT2+3-8<HR,HA,HS>
K	87-067-001-010		S-SCREW BWWST 2+3-12

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

TAPE MECHANISM EXPLODED VIEW 1 / 1





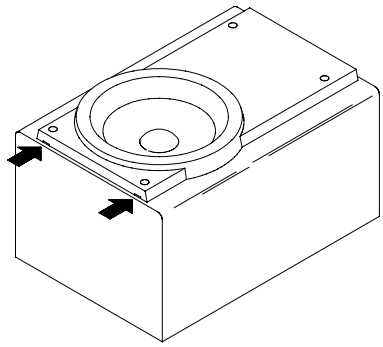
TAPE MECHANISM PARTS LIST 1 / 1

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	82-ZM3-301-510		CHAS ASSY,M2
2	82-ZM1-258-110		SPR-T,PINCH L
3	82-ZM1-341-110		LVR ASSY,PINCH L2
4	82-ZM1-333-010		PLATE,LINK 2
5	82-ZM1-266-11K		LVR,DIR
6	82-ZM1-214-010		SPR-T,DIR
7	82-ZM1-206-81K		CHAS,HEAD
8	82-ZM3-340-010		SH,BELT D2
9	82-ZM1-269-210		SPR-T,BRG
10	82-ZM1-219-110		SPR-T,LINK
11	82-ZM1-210-110		GEAR,H T
12	82-ZM1-213-010		SPR-T,HEAD
13	82-ZM1-207-610		GUIDE,TAPE
14	86-ZM4-206-010		S-SCREW,AZIMUTH
15	82-ZM1-314-110		PLATE,HEAD
16	82-ZM1-208-110		HLDR,HEAD
17	82-ZM1-218-010		SPR-E,HB
18	82-ZM1-263-110		LVR,EJECT L (DECK 1)
18	82-ZM1-264-010		LVR,EJECT R (DECK 2)
19	82-ZM1-222-21K		LVR,PLAY
20	82-ZM1-217-310		REEL TABLE
21	82-ZM1-244-510		SPR-C,BT
22	82-ZM1-285-310		SPR-C,BT L
23	82-ZM1-257-010		SPR-T,CAS
24	82-ZM1-241-310		LVR,MC
25	82-ZM1-242-010		LVR,CAS
26	82-ZM1-243-010		LVR,STOP
27	82-ZM1-344-110		LVR ASSY,PINCH R2
28	82-ZM1-259-110		SPR-T,PINCH R
29	82-ZM1-240-11K		LVR,REC (DECK 2)
31	82-ZM1-255-310		SPR-E,LVR DIR
32	82-ZM3-305-01K		GEAR,CAM M2
33	82-ZM1-227-21K		LVR,TRIG
34	82-ZM3-306-11K		LVR,FR M2
35	82-ZM1-265-110		SPR-E,TRIG
36	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
37	86-ZM1-206-010		BELT,MAIN L
38	82-ZM1-322-010		SPR-T,FR60
39	82-ZM1-220-210		GEAR,IDLER
40	82-ZM3-616-010		RING MAGNET 4
41	82-ZM1-216-31K		GEAR,REEL
42	87-A90-319-010		HEAD,PH HADKH2 FPC
42	87-A90-320-010		HEAD,RPH HADKH5 FPC
43	82-ZM1-225-21K		GEAR,FR
44	82-ZM1-226-010		GEAR,REW
45	82-ZM3-333-310		SLIP DISK ASSY 2
46	82-ZM1-338-010		BELT FR4
47	82-ZM1-349-110		FLY-WHL,R W(DECK 2)
47	82-ZM3-338-110		FLY-WHL,R3 W(DECK 1)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 2)
48	82-ZM1-348-010		FLY-WHL,L W(DECK 1)
49	82-ZM3-329-210		BELT,SBU R2
50	82-ZM1-245-210		HLDR,IC
51	87-045-347-019		MOT,SHU2L 70(M1)
52	82-ZM3-221-010		PULLEY,MOT 2M
53	82-ZM1-288-019		SH,1.63-3.2-0.5 SLT
54	80-ZM6-243-019		SH,1.75-3.6-0.5 SLT
55	82-ZM3-335-210		PULLEY,COUPLER M3(DECK 1)
56	82-ZM3-337-010		BELT,SBU MOT 2
57	82-ZM3-339-010		SHAFT,COUPLER N3(DECK 1)
58	86-ZM1-206-010		BELT,MAIN L
59	82-ZM3-340-010		SH,BELT D2
A	85-ZM3-202-010		S-SCREW,TG
B	80-ZM6-207-019		V+1.6-7
C	82-ZM3-318-019		S-SCRW MOTOR M2
D	87-B10-043-010		W-P,0.99-4-0.25 SLT
E	82-ZM3-334-010		PW,2.16-6-0.4

SPEAKER DISASSEMBLY INSTRUCTIONS

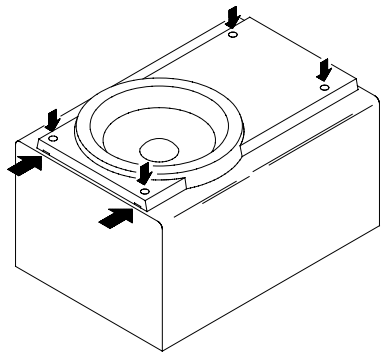
Type.1

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.



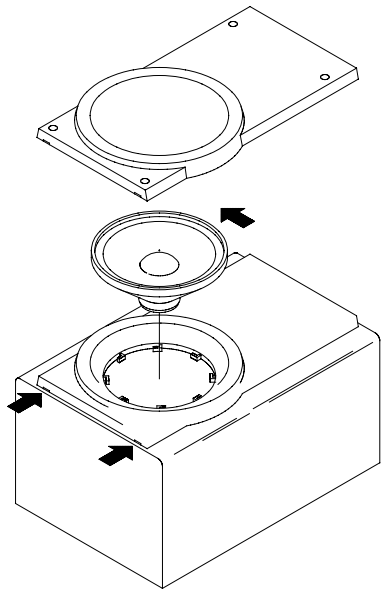
Type.2

Remove the grill frame and four pieces of rubber caps by pulling out with a flat-bladed screwdriver. Remove the screws from hole where installed rubber caps. Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Remove the screws of each speaker unit and then remove the speaker units.

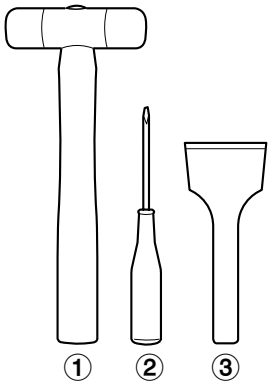


Type.3

Insert a flat-bladed screwdriver into the position indicated by the arrows and remove the panel. Turn the speaker unit to counter-clockwise direction while inserting a flat-bladed screwdriver into one of the hollows around speaker unit, and then remove the speaker unit. After replacing the speaker unit, install it turning to clockwise direction until "click" sound comes out.



Type.4



TOOLS

① Plastic head hammer
② (⊖) flat head screwdriver
③ Cut chisel

How to Remove the PANEL, FR

1. Insert the (⊖) flat head screwdriver tip into the gap between the PANEL, FR and the PANEL, SPKR. Tap the head of the (⊖) flat head screwdriver with the plastic hammer head, and create the clearance as shown in Fig-1.

2. Insert the cut chisel in the clearance, and tap the head of the cut chisel with plastic hammer as shown in Fig-2, to remove the PANEL, FR.

3. Place the speaker horizontally. Tap head of the cut chisel with plastic hammer as shown in Fig-3, and remove the PANEL, FR completely.

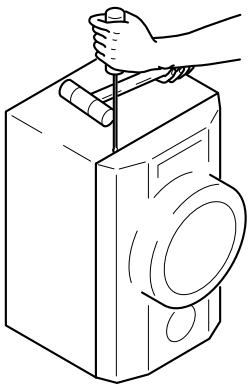


Fig-1

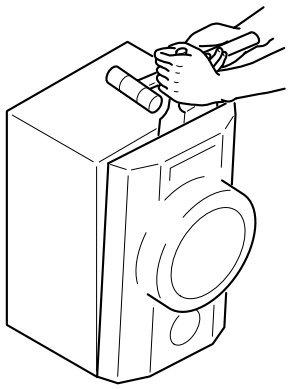


Fig-2

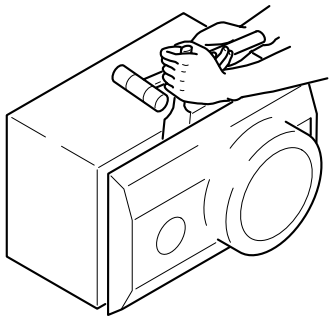


Fig-3

How to Attach the PANEL, FR

Attach the PANEL, FR to the PANEL, SPKR. Tap the four corners of the PANEL, FR with the plastic hammer to fit the PANEL, FR into the PANEL, SPKR completely.

SPEAKER PARTS LIST SX-WNSZ70 (YLSL / YJSL / Y1SL) / SX-WNAJ70 (YUSL)

REF. NO.	PART NO.	KANRI NO.	DESCRIPTION
1	8Z-NS6-606-110		SPKR, W 160
2	8A-NS7-604-010		SPKR,M 100
3	88-NSK-610-010		SPKR, CERAMIC ASSY
4	8Z-NSY-003-010		CORD,BUSH
5	8A-NS7-017-010		PROTECTOR,
6	88-NS5-610-010		CORD,SPKR
7	88-NS5-611-010		CORD,SPKR B/L
8	8A-NS7-001-010		PANEL,FR<SX-WNSZ70>
8	8A-NS7-021-010		PANEL,FR U<SX-WNAJ70>
9	8A-NS7-004-010		PANEL,DUCT
10	8A-NS7-005-010		GRILLE,FRAME ASSY<SX-WNSZ70>
10	8A-NS7-014-010		GRILLE,FRAME ASSY U<SX-WNAJ70>
11	8A-NSJ-006-010		BADGE,AIWA S35

アイワ株式会社 〒110-8710 東京都台東区池之端1-2-11 ☎03(3827)3111 (代表)
AIWA CO.,LTD. 2-11, IKENOHATA 1-CHOME, TAITO-KU, TOKYO 110, JAPAN TEL:03 (3827) 3111

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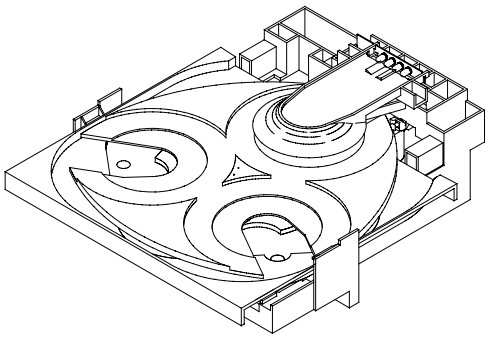
aiwa SERVICE

AZG-1

English



SERVICE MANUAL

CD MECHANISM

BASIC CD MECHANISM : KSM-880CAB

TYPE
Z8RMDJM

aiwa

S/M Code No. 09-001-335-3N2

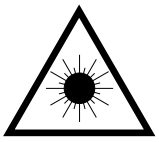
DATA

PROTECTION OF EYES FROM LASER BEAM DURING SERVICING

This set employs laser. Therefore, be sure to follow carefully the instructions below when servicing.

WARNING!

WHEN SERVICING, DO NOT APPROACH THE LASER EXIT WITH THE EYE TOO CLOSELY. IN CASE IT IS NECESSARY TO CONFIRM LASER BEAM EMISSION. BE SURE TO OBSERVE FROM A DISTANCE OF MORE THAN 30cm FROM THE SURFACE OF THE OBJECTIVE LENS ON THE OPTICAL PICK-UP BLOCK.



- Caution: Invisible laser radiation when open and interlocks defeated avoid exposure to beam.
- Advarsel: Usynling laserstråling ved åbning, når sikkerhedsafbrydere er ude af funktion. Undgå udsættelse for stråling.

VAROITUS!

Laiteen Käyttäminen muulla kuin tässä käyttöohjeessa mainitulla tavalla saattaa altistaa käyt-täjän turvallisuusluokan 1 ylittävälle näkymättömälle lasersäteilylle.

VARNING!

Om apparaten används på annat sätt än vad som specificeras i denna bruksanvising, kan användaren utsättas för osynling laserstrålning, som överskrider gränsen för laserklass 1.

CAUTION

Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

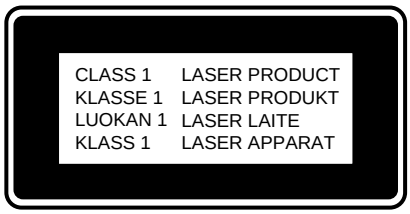
ATTENTION

L'utilisation de commandes, réglages ou procédures autres que ceux spécifiés peut entraîner une dangereuse exposition aux radiations.

ADVARSEL!

Usynlig laserstråling ved åbning, når sikkerhedsafbrydereer ude af funktion. Undgå udsættelse for stråling.

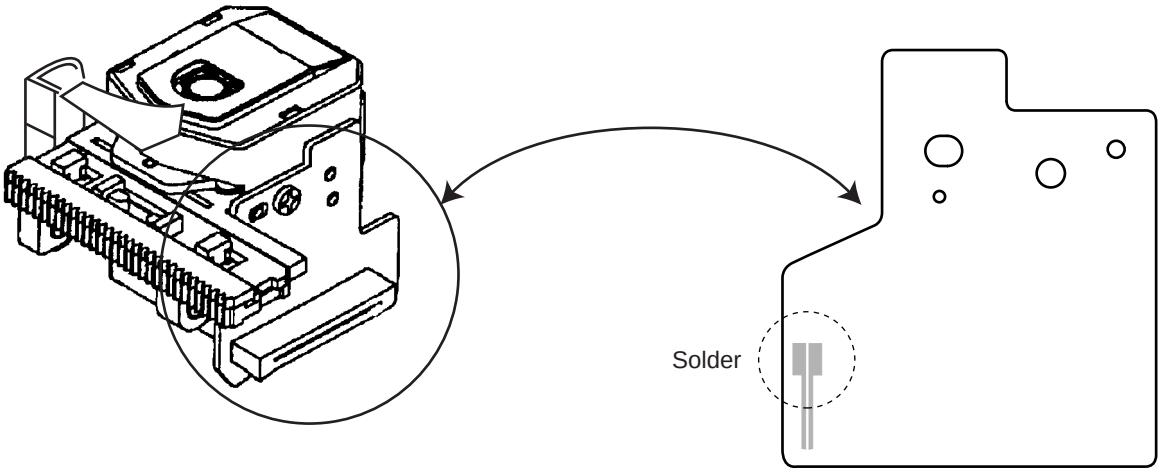
This Compact Disc player is classified as a CLASS 1 LASER product.
The CLASS 1 LASER PRODUCT label is located on the rear exterior.



Precaution to replace Optical block

Body or clothes electrostatic potential could ruin laser diode in the optical block. Be sure ground body and workbench, and use care the clothes do not touch the diode.

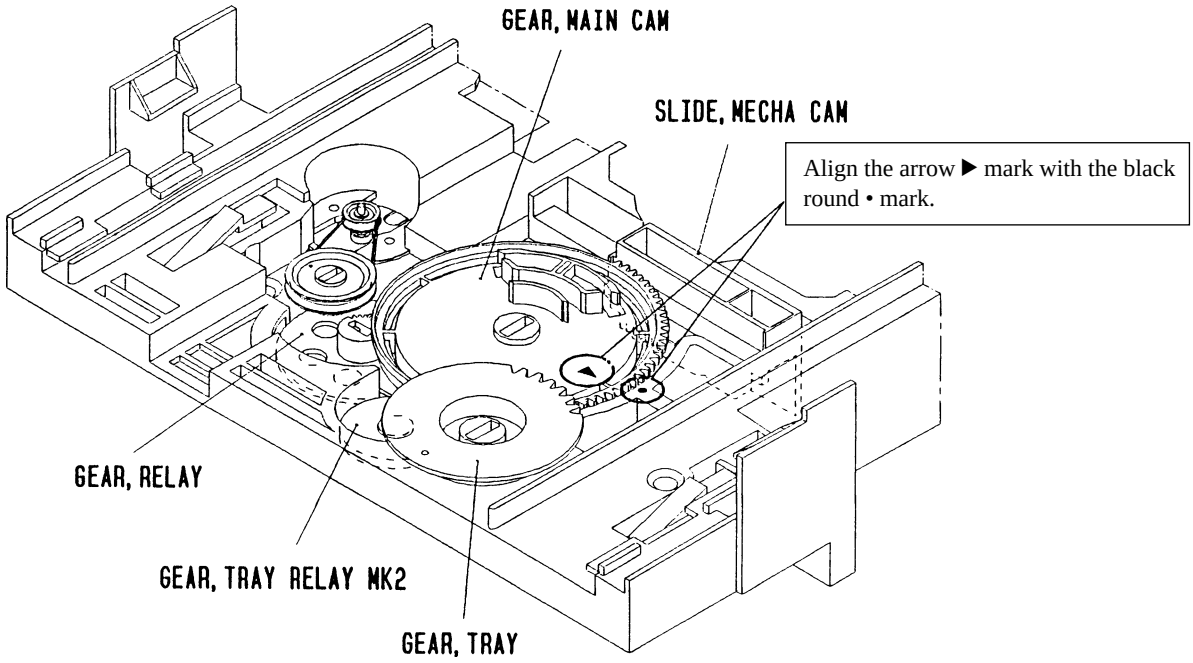
1) After the connection, remove solder shown in the figure below.



How to Adjust the Rotating Phase of the Gear, Main Cam

1) Push down the hooking catch of the CHAS. MECH, and remove the TRAY.
2) Align the arrow mark of the Gear, Main Cam with the black round mark of the CHAS, MECHA as shown below.
3) Confirm that the Slide, Mech Cam is located in the right position, then insert the TRAY gently.

Caution: If the rotating phase of the Gear, Main Cam is incorrectly adjusted, the chucking operation and tray movement will have malfunction.



ELECTRICAL MAIN PARTS LIST

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

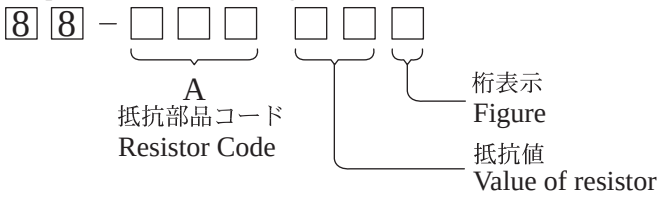
REF. NO	PART NO.	KANRI NO.	DESCRIPTION
IC			
	87-A20-446-010		C-IC,LA9241ML
	87-A21-319-010		C-IC,LC78622NE
	87-A20-445-010		IC,BA5936
TRANSISTOR			
	87-026-609-080		TR,KTA1266GR
	87-026-295-080		TR,DTC144TK
	87-A30-087-080		C-FET,2SK2158
	87-026-237-080		CHIP-TR,DTC124XK
	87-A30-076-080		C-TR,2SC3052F
	87-A30-075-080		C-TR,2SA1235F
DIODE			
	87-020-465-080		DIODE,1SS133 (110MA)
	87-020-331-080		CHIP-DIODE,DAN202K
	87-A40-337-080		ZENER,MTZJ 6.8B
	87-A40-313-080		C-DIODE,MC 2840
	87-A40-620-080		ZENER,MTZJ6.2A
3CD C.B			
C11	87-012-393-080		C-CAP,S 0.22-16 R K
C12	87-012-157-080		C-CAP,S 330P-50 CH
C13	87-016-369-080		C-CAP,S 0.033-25 B K
C14	87-A10-201-080		C-CAP,S0.33-16 KB
C15	87-010-213-080		C-CAP,S 0.015-50 B
C16	87-016-083-080		C-CAP,S 0.15-16 RK
C17	87-010-184-080		CHIP CAPACITOR 3300P(K)
C18	87-A11-177-080		C-CAP,S 0.15-16 K B
C19	87-010-992-080		C-CAP,S 0.047-25 B
C20	87-010-178-080		CHIP CAP 1000P
C21	87-012-393-080		C-CAP,S 0.22-16 R K
C22	87-016-083-080		C-CAP,S 0.15-16 RK
C23	87-010-197-080		CAP, CHIP 0.01 DM
C24	87-010-186-080		CAP,CHIP 4700P
C25	87-010-400-040		CAP,E 0.47-50
C26	87-010-322-080		C-CAP,S 100P-50 CH
C27	87-010-382-040		CAP,E 22-25 SME
C28	87-010-545-040		CAP,E 0.22-50 SME
C29	87-010-184-080		CHIP CAPACITOR 3300P(K)
C31	87-010-186-080		CAP,CHIP 4700P
C32	87-010-315-080		C-CAP,S 27P-50 CH
C33	87-016-081-080		C-CAP,S 0.1-16 RK
C35	87-010-196-080		CHIP CAPACITOR,0.1-25
C37	87-010-405-080		CAP, ELECT 10-50V
C38	87-010-263-080		CAP, ELECT 100-10V
C39	87-010-197-080		CAP, CHIP 0.01 DM
C40	87-010-401-080		CAP, ELECT 1-50V
C41	87-016-081-080		C-CAP,S 0.1-16 RK
C42	87-010-263-080		CAP, ELECT 100-10V
C43	87-010-197-080		CAP, CHIP 0.01 DM
C44	87-010-263-080		CAP, ELECT 100-10V
C46	87-010-196-080		CHIP CAPACITOR,0.1-25
C47	87-010-260-080		CAP, ELECT 47-25V
C48	87-010-196-080		CHIP CAPACITOR,0.1-25
C49	87-010-404-080		CAP, ELECT 4.7-50V
C50	87-010-197-080		CAP, CHIP 0.01 DM
C51	87-010-263-040		CAP,E 100-10
C52	87-012-156-080		C-CAP,S 220P-50 CH
C71	87-012-393-080		C-CAP,S 0.22-16 R K
C101	87-016-369-080		C-CAP,S 0.033-25 B K
C102	87-016-081-080		C-CAP,S 0.1-16 RK
C103	87-010-318-080		C-CAP,S 47P-50 CH
C104	87-012-154-080		C-CAP,S 150P-50 CH
C105	87-010-196-080		CHIP CAPACITOR,0.1-25
C109	87-010-197-080		CAP, CHIP 0.01 DM
C111	87-010-312-080		C-CAP,S 15P-50 CH
C112	87-010-154-080		CAP CHIP 10P
C113	87-010-178-080		CHIP CAP 1000P
C115	87-010-404-080		CAP, ELECT 4.7-50V
C116	87-010-196-080		CHIP CAPACITOR,0.1-25
C117	87-010-263-040		CAP,E 100-10
C118	87-010-178-080		CHIP CAP 1000P
C121	87-010-403-080		CAP, ELECT 3.3-50V
C122	87-010-403-080		CAP, ELECT 3.3-50V
C123	87-010-180-080		C-CER 1500P
C124	87-010-180-080		C-CER 1500P
C132	87-010-196-080		CHIP CAPACITOR,0.1-25
C135	87-010-314-080		C-CAP,S 22P-50V
C191	87-010-263-040		CAP,E 100-10
C192	87-010-178-080		CHIP CAP 1000P
C193	87-010-196-080		CHIP CAPACITOR,0.1-25
C201	87-010-196-080		CHIP CAPACITOR,0.1-25
C204	87-010-196-080		CHIP CAPACITOR,0.1-25
C205	87-010-196-080		CHIP CAPACITOR,0.1-25
C206	87-010-196-080		CHIP CAPACITOR,0.1-25
C207	87-010-196-080		CHIP CAPACITOR,0.1-25
C208	87-010-196-080		CHIP CAPACITOR,0.1-25
C211	87-010-405-040		CAP,E 10-50
C212	87-010-405-040		CAP,E 10-50
C213	87-010-196-080		CHIP CAPACITOR,0.1-25
C251	87-010-322-080		C-CAP,S 100P-50 CH
C252	87-010-322-080		C-CAP,S 100P-50 CH
C253	87-010-322-080		C-CAP,S 100P-50 CH
C281	87-010-382-040		CAP,E 22-25 SME
C401	87-A10-730-080		CAP,E 1000-16 SMG
C402	87-010-197-080		CAP, CHIP 0.01 DM
C403	87-010-196-080		CHIP CAPACITOR,0.1-25
C404	87-010-260-040		CAP,E 47-25 SME
C405	87-010-382-080		CAP, ELECT 22-25V
C421	87-010-382-080		CAP, ELECT 22-25V
C422	87-010-196-080		CHIP CAPACITOR,0.1-25
C901	87-010-260-080		CAP, ELECT 47-25V
C902	87-010-196-080		CHIP CAPACITOR,0.1-25
CN1	87-A60-429-010		CONN,16P H TOC-A
CN2	87-099-199-010		CONN,6P 6216 H
CN201	87-099-030-010		CONN,13P 6216H
CN203	87-099-212-010		CONN,5P 6216 V
CN204	84-ZG1-648-010		CONN ASSY,6P
CN501	87-A60-666-010		CONN,2P H 2MM JMT
FB501	87-A50-189-080		C-COIL,S BLM21B272S
L11	87-005-849-080		COIL,10UH(CECS)
L101	87-005-614-080		COIL 100UH LAV35 J
L102	87-005-602-080		COIL,10UH LAV35 J
LED901	87-A40-558-010		LED,SLZ-8128A-01-A
M201	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
SFR101	87-A90-787-080		SFR,100K H HOKU
SW201	87-036-109-010		SW,MICRO SPPB61
SW202	87-036-109-010		SW,MICRO SPPB61
X101	87-A70-046-010		VIB,XTAL 16.934MHZ
LED C.B			
LED301	87-A40-263-080		LED,SLH-56PCT31 GRN
LED302	87-A40-268-080		LED,SLH-56DCT31 ORN
LED303	87-A40-268-080		LED,SLH-56DCT31 ORN
LED304	87-A40-263-080		LED,SLH-56PCT31 GRN
T-T C.B			
C401	87-018-214-080		CAP TC U 0.1-50F
CON401	86-NFZ-675-010		CONN,5P H 6216-11H
M401	87-045-364-010		MOTOR(BCH3B14)
PS401	87-026-573-010		SNSR,PHOTO GP1S53V

REF. NO	PART NO.	KANRI NO.	DESCRIPTION	REF. NO	PART NO.	KANRI NO.	DESCRIPTION
MOTOR C.B							
PIN3	91-564-722-110		CONN,PIN 6P				
SW1	91-572-085-110		LEAF SWITCH				

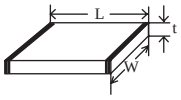
- Regarding connectors, they are not stocked as they are not the initial order items.
  The connectors are available after they are supplied from connector manufacturers upon the order is received.

○チップ抵抗部品コード／CHIP RESISTOR PART CODE

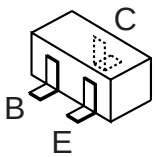
チップ抵抗部品コードの成り立ち
Chip Resistor Part Coding



チップ抵抗
Chip resistor

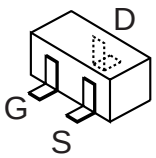
容量 Wattage	種類 Type	許容誤差 Tolerance	記号 Symbol	寸法／Dimensions (mm) 外形／Form	L	W	t	抵抗コード : A Resistor Code : A
1/16W	1005	± 5%	CJ		1.0	0.5	0.35	104
1/16W	1608	± 5%	CJ		1.6	0.8	0.45	108
1/10W	2125	± 5%	CJ		2	1.25	0.45	118
1/8W	3216	± 5%	CJ		3.2	1.6	0.55	128

TRANSISTOR ILLUSTRATION



2SA1235F
2SC3052F
DTC124XK
DTC144TK

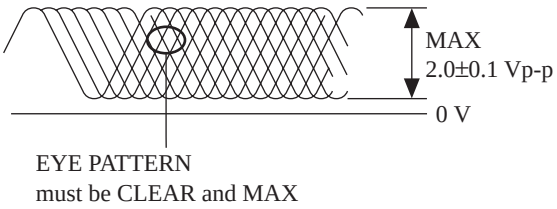
KTA1266GR



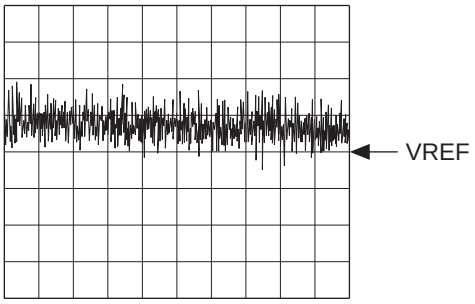
2SK2158

WAVE FORM

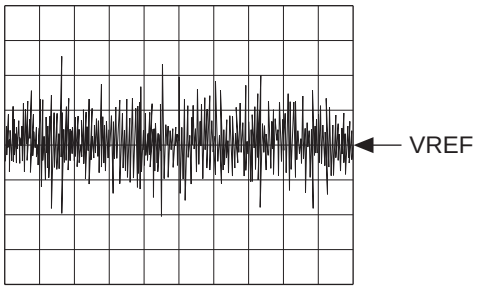
① IC11 Pin ㊶ (RFSH) VOLT/DIV: 0.5V
TIME/DIV: 1µS



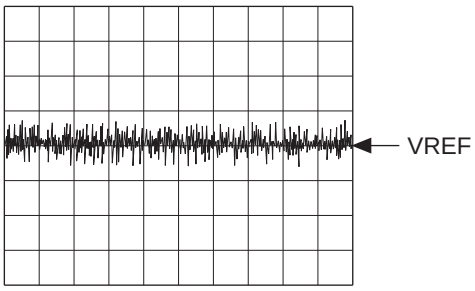
② IC11 Pin ⑯ (FD) VOLT/DIV: 100mV
TIME/DIV: 1mS



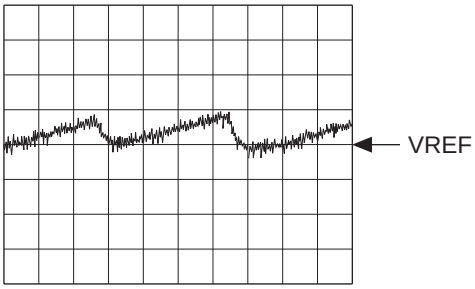
③ IC11 Pin ⑮ (TO) VOLT/DIV: 100mV
TIME/DIV: 1mS



④ IC11 Pin ㉗ (SPD) VOLT/DIV: 100mV
TIME/DIV: 1mS

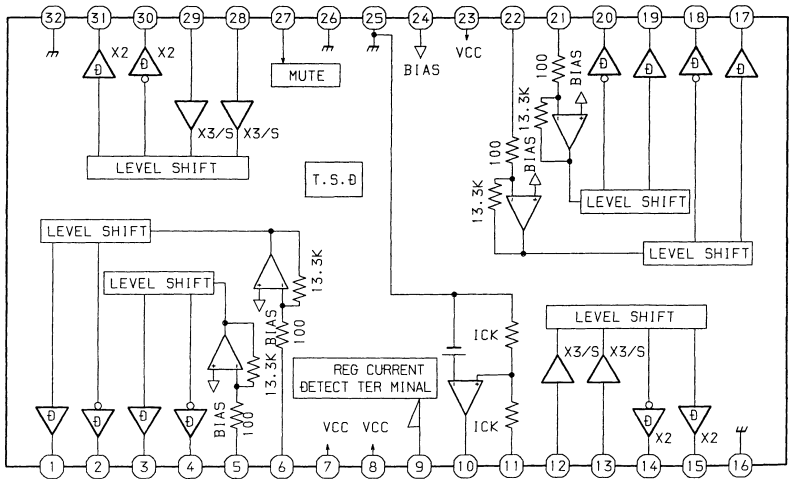


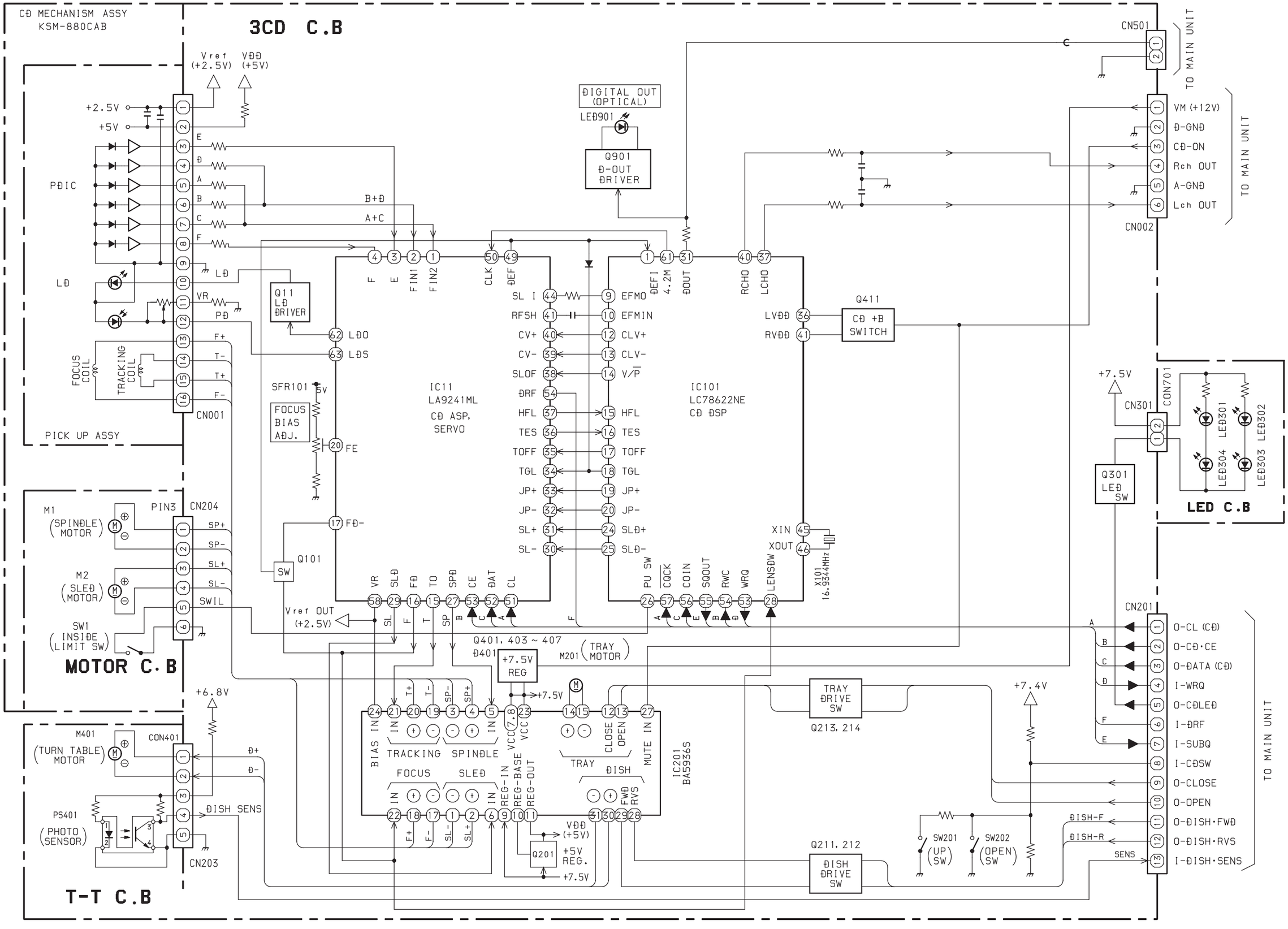
⑤ IC11 Pin ㉙ (SLD) VOLT/DIV: 200mV
TIME/DIV: 2S

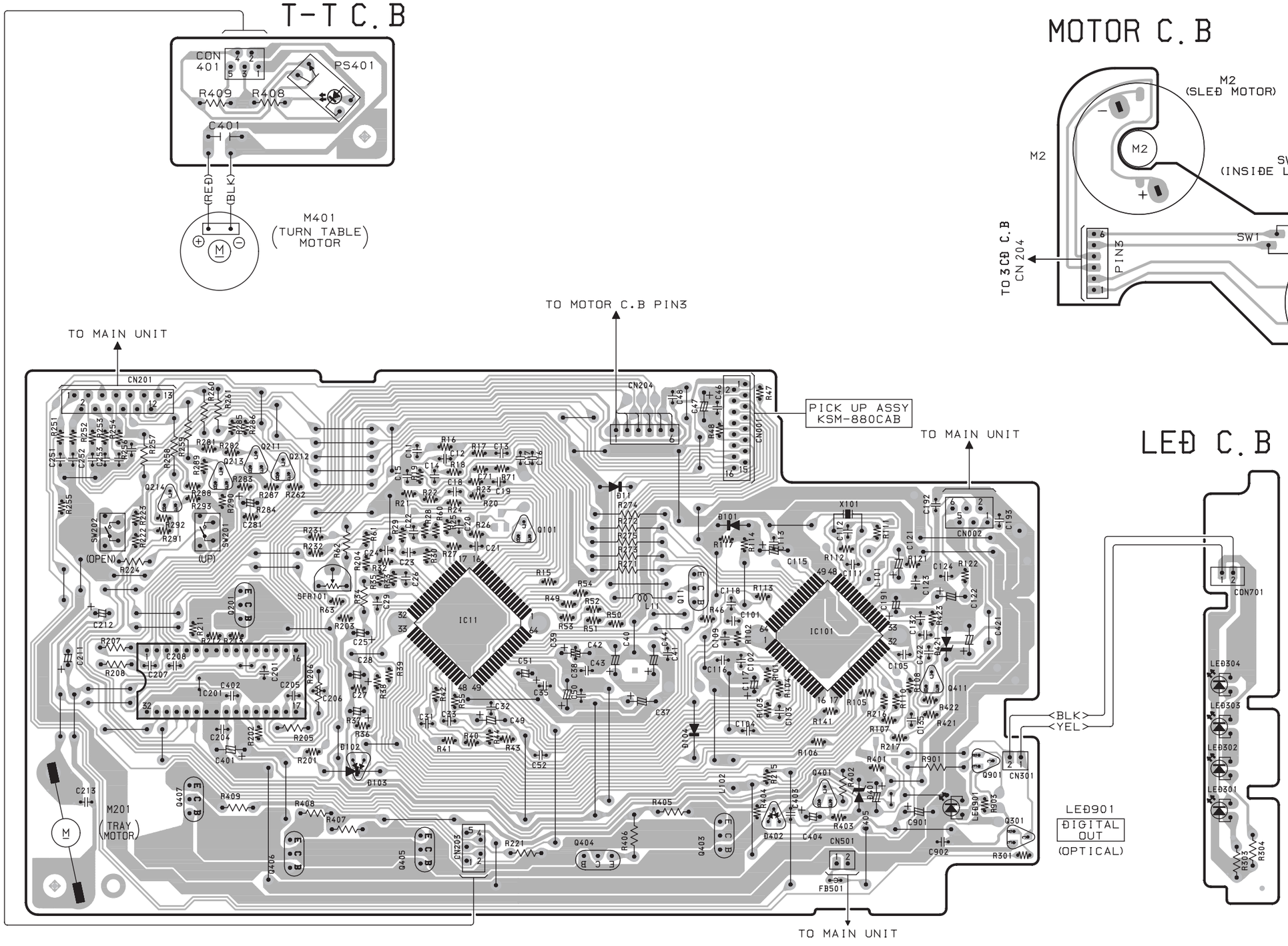


IC BLOCK DIAGRAM

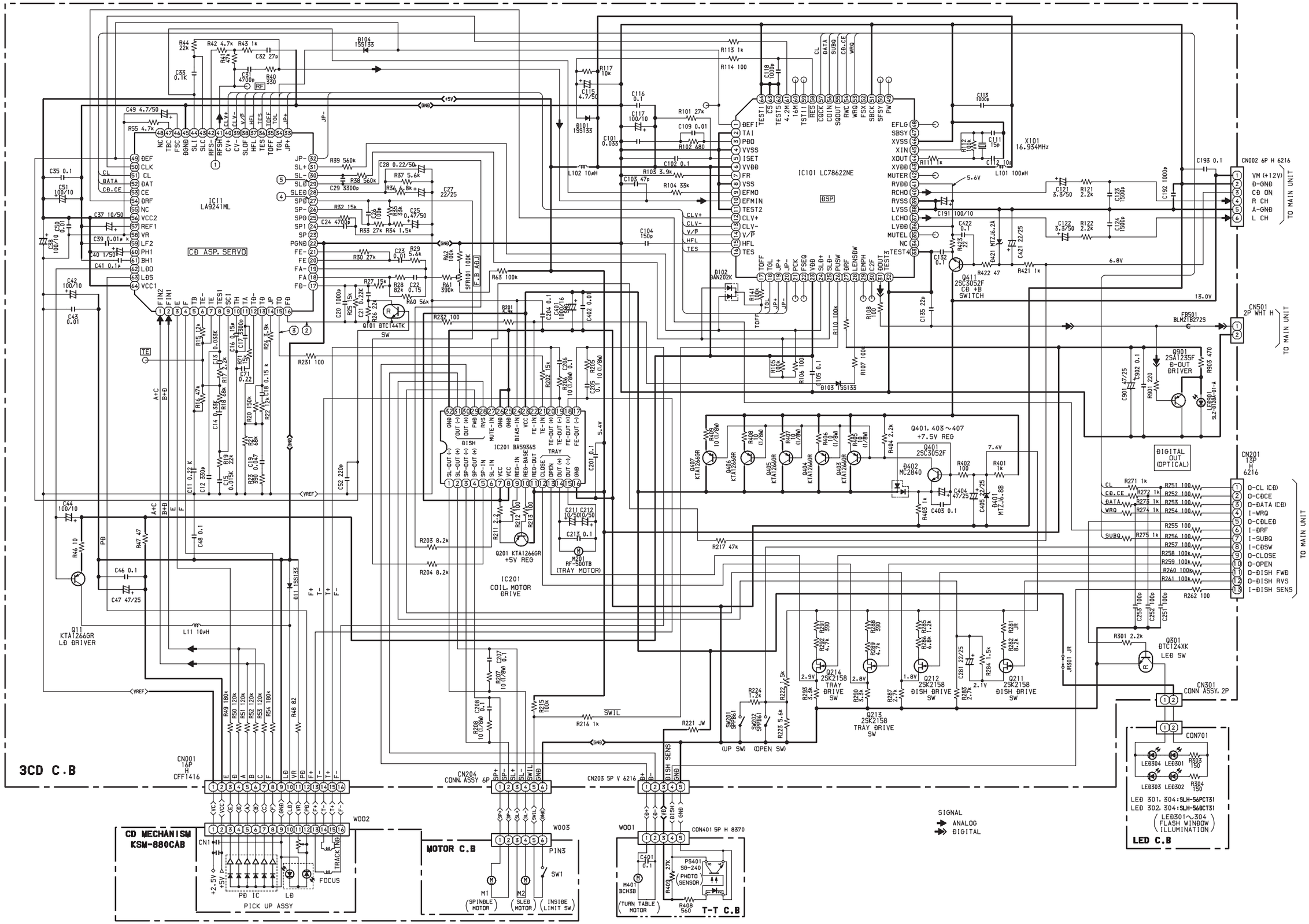
IC, BA5936S




CD MECHANISM ASSY
KSM-880CAB
3CD C.B
PICK UP ASSY
PDIC
LD
FOCUS COIL
TRACKING COIL
CN001
Vref (+2.5V)
VDD (+5V)
+2.5V
+5V
E
D
A
B
C
F
LD
VR
PD
F+
T-
T+
F-
B+D
A+C
Q11 LD DRIVER
SFR101
5V
FOCUS BIAS ADJ.
FE
FD-
Q101
SW
Vref OUT (+2.5V)
IC11
LA9241ML
CD ASP, SERVO
IC101
LC78622NE
CD DSP
DIGITAL OUT (OPTICAL)
LED901
Q901 D-OUT DRIVER
CN501
TO MAIN UNIT
VM (+12V)
D-GND
CD-ON
Rch OUT
A-GND
Lch OUT
CN002
Q411
CD +B SWITCH
+7.5V
CN301
CON701
Q301 LED SW
LED304 LED301 LED303 LED302
LED C.B
M1 (SPINDLE MOTOR)
M2 (SLED MOTOR)
SW1 (INSIDE LIMIT SW)
PIN3
CN204
SP+
SP-
SL+
SL-
SWIL
MOTOR C.B
Q401, 403 ~ 407
D401
+7.5V REG
M201 (TRAY MOTOR)
TRAY DRIVE SW
Q213, 214
+6.8V
+7.4V
M401 (TURN TABLE MOTOR)
CON401
D+
D-
PS401 (PHOTO SENSOR)
DISH SENS
CN203
T-T C.B
TRACKING
SPINDLE
FOCUS
SLED
TRAY
DISH
IC201
BA5936S
VDD (+5V)
Q201
+5V REG.
+7.5V
Q211, 212
DISH DRIVE SW
SW201 (UP SW)
SW202 (OPEN SW)
CN201
O-CL (CD)
O-CD·CE
O-DATA (CD)
I-WRQ
O-CDLED
I-DRF
I-SUBQ
I-CDSW
O-CLOSE
O-OPEN
O-DISH·FWD
O-DISH·RVS
I-DISH·SENS
DISH-F
DISH-R
SENS
X101
16.9344MHz


T-T C.B
CON 401
PS401
R409
R408
C401
(RED)
(BLK)
M401
(TURN TABLE) MOTOR
MOTOR C.B
M2
(SLED MOTOR)
M2
SW1
(INSIDE LIMIT SW)
M1
(SPINDLE MOTOR)
SW1
PIN3
TO 3CD C.B CN 204
M1
TO MOTOR C.B PIN3
TO MAIN UNIT
CN201
CN204
PICK UP ASSY KSM-880CAB
TO MAIN UNIT
LED C.B
IC11
IC101
X101
CN002
CON701
LED304
LED303
LED302
LED301
SW202
(OPEN)
SW201
(UP)
SFR101
M201
(TRAY MOTOR)
CN205
CN501
FB501
CN001
CN301
Q901
LED901
R903
Q301
R301
LED901
DIGITAL OUT
(OPTICAL)
BLK
YEL
TO MAIN UNIT

3CD C.B


IC11 LA9241ML
CD ASP. SERVO
IC101 LC78622NE
DSP
IC201 BA5936S
TRAY
DISH
IC201 COIL MOTOR DRIVE
X101 16.934MHz
3CD C.B
CD MECHANISM KSM-880CAB
PICK UP ASSY
MOTOR C.B
T-T C.B
LED C.B
CN002 6P H 6216
TO MAIN UNIT
CN501 2P WHT H
CN201 13P H 6216
CN301 CONN ASSY. 2P
CN001 16P H CFF1416
CN204 CONN ASSY 6P
CN203 5P V 6216
CN401 5P H 8370
CON701
Q401, 403~407 +7.5V REG
Q201 KTA1266GR +5V REG
Q11 KTA1266GR LD DRIVER
Q214 2SK2158 TRAY DRIVE SW
Q213 2SK2158 TRAY DRIVE SW
Q212 2SK2158 DISH DRIVE SW
Q211 2SK2158 DISH DRIVE SW
Q411 2SC3052F CD +B SWITCH
Q901 2SA1235F D-OUT DRIVER
Q301 DTC124XK LED SW
Q402 MC2840
Q401 2SC3052F
M201 RF-500TB (TRAY MOTOR)
M401 BCH5B (TURN TABLE MOTOR)
M1 (SPINDLE MOTOR)
M2 (SLED MOTOR)
SW1 (INSIDE LIMIT SW)
PS401 SG-240 (PHOTO SENSOR)
PD IC
LD
FOCUS
TRACKING
SW
(UP SW)
(OPEN SW)
DIGITAL OUT (OPTICAL)
SIGNAL
ANALOG
DIGITAL
LED 301, 304: SLH-56PCT31
LED 302, 304: SLH-56BCT31
(LED301~304 FLASH WINDOW ILLUMINATION)
VM (+12V)
D-GND
CD ON
R CH
A-GND
L CH
5.6V
6.8V
13.0V
7.4V
2.9V
2.8V
1.8V
2.1V
+5V
GND
VREF

TEST MODE

1. How to Activate CD Test Mode
   Insert the AC plug while pressing the function CD button.
   All FL display tubes will light up, and the test mode will be activated.

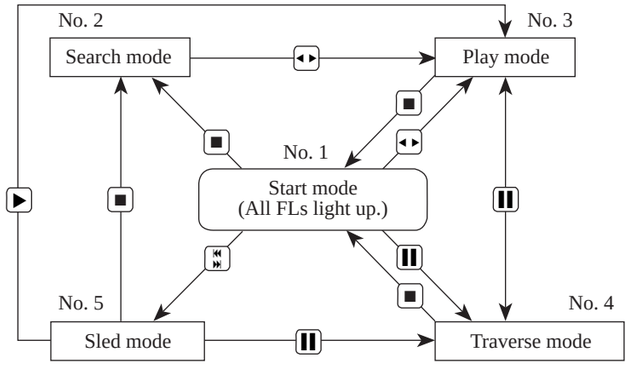
2. How to Cancel CD Test Mode
   Either one of the following operations will cancel the CD test mode.
   - Press the function button. (except CD function button)
   - Press the power switch button.
   - Disconnect the AC plug

3. CD Test Mode Functions
   When test mode is activated, the following mode functions from No.1 to No.5 can be used by pressing the operation keys.

Mode/No.	Operation	FL display	Operation	Contents
Start mode No.1	Activation	All lamps light	• Test mode is activated. • CD block power is ON.	• FL display check (All displays light.)
Search mode No.2	■ key		• Laser diode turns always ON. • Continual focus search (The pickup lens repeats the full-swing up-down motion.) * Avoid continual searches that last for more than 10 minutes. * NOTE 1	• APC circuit check • Laser current measurement (Laser current control. Across a resistor connected between emitter and GND.) FOCUS SERVO • Check focus search waveform • Check focus error waveform (FOK/FZC are not monitored in the search mode)
Play mode No.3	◀ ▶ key		• Normal playback • Focus search is continued if TOC cannot be read. * NOTE 1	FOCUS SERVO/TRACKING SERVO CLV SERVO/SLED SERVO Check DRF
Traverse mode No.4	▌▌ key		• During normal disc playback Press once; tracking servo OFF Press twice; tracking servo ON * NOTE 2	TRACKING SERVO ON/OFF Tracking balance (traverse) check
Sled mode No.5	⏮ key ⏭	All lamps light	• Pickup moves to the outermost track • Pickup moves to the innermost track * NOTE 3 (During playback, machine operates normally.)	SLED SERVO Check SLED mechanism operation

* NOTE 1: There are cases when the tracking servo cannot be locked owing to the protection circuit being operated when heat builds up in the driver IC if the focus search is operated continually for more than 10 minutes. In these cases the power supply should be switched off for 10 minutes until heat has been reduced and then re-started.
* NOTE 2: Do not press the ⏮ or ⏭ keys when the machine is in the ▌▌ status is active. If they are pressed, playback will not be possible after the ▌▌ status has been canceled. If the ⏮ or ⏭ keys are pressed in the ▌▌ status, press the ■ key and return to the start mode (No.1).
* NOTE 3: When pressing the ⏮ or ⏭ keys, take care to avoid damage to the gears. Because the sled motor is activated when the ⏮ or ⏭ keys are pressed, even when the pick-up is at the outermost or innermost track.

4. Operation Outline
   The operation of each mode is carried out in the direction of the arrows from the start mode as indicated in the following illustration.



If the DISC DIRECT PLAY button is pressed, the machine performs the same operation as the PLAY button is pressed as shown. If the tray is opened by pressing OPEN/CLOSE button during Play mode or Traverse mode, the machine returns to the Start mode.

IC DESCRIPTION

IC, LC78622NE

Pin No.	Pin Name	I/O	Description	
1	DEFI	I	Defect sense signal (DEF) input pin. (Connect to 0V when not used).	
2	TAI	I	For PLL.	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
3	PDO	O		Phase comparator output pin to control external VCO.
4	VVSS	—		GND pin for built-in VCO. Be sure to connect to 0V.
5	ISET	I		Pin to which external resistor adjusting the PD0 output current.
6	VVDD	—		Power supply pin for built-in VCO.
7	FR	I		Pin for VCO frequency range adjustment.
8	VSS	—	Digital system GND. Be sure to connect to 0V.	
9	EFMO	O	For slice level control.	EFM signal output pin.
10	EFMIN	I		EFM signal input pin.
11	TEST2	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
12, 13	CLV+, CLV–	O	Disc motor control output. Three level output is possible using command.	
14	V/$\overline{P}$	O	Rough servo or phase control automatic selection monitoring output pin. Rough servo at H. Phase servo at L.	
15	HFL	I	Track detect signal input pin. Schmidt input.	
16	TES	I	Tracking error signal input pin. Schmidt input.	
17	TOFF	O	Tracking OFF output pin.	
18	TGL	O	Tracking gain selection output pin. Gain boost at L.	
19, 20	JP+, JP–	O	Track jump control signal output pin. Three level output is possible using command.	
21	PCK	O	EFM data playback clock monitoring pin 4.3218 MHz when phase is locked in.	
22	FSEQ	O	Sync signal detection output pin. H when the sync signal which is detected from EFM signal and thesync signal which is internally generated agree.	
23	VDD	—	Digital system power supply pin.	
24	SLD+	I/O	General purpose input/output pin 1 to 5.	The pin is controlled by the serial data command from microprocessor. When the pin is not used, set the pin to the input terminal and connect to 0V, or alternately set the pin to output terminal and leave the pin open.
25	SLD-	I/O		
26	PUSW	I/O		
27	DRF	I/O		
28	LENSDW	I/O		
29	EMPH	O	De-emphasis monitor output pin. De-emphasis disc is being played back at H.	
30	C2F	O	C2 flag output pin.	
31	DOUT	O	DIGITAL OUT output pin. (EIAJ format).	
32, 33	TEST3, TEST4	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.	
34	N.C.	—	Not used. Set the pin to open.	
35	MUTEL	O	L-channel 1-bit DAC.	L-channel mute output pin.
36	LVDD	—		L-channel power supply pin.
37	LCHO	O		L-channel output pin.
38	LVSS	—		L-channel GND. Be sure to connect to 0V.
39	RVSS	—	R-channel 1-bit DAC.	R-channel GND. Be sure to connect to 0V.
40	RCHO	O		R-channel output pin.
41	RVDD	—		R-channel power supply pin.
42	MUTER	O		R-channel mute output pin.

Pin No.	Pin Name	I/O	Description
43	XVDD	—	Crystal oscillator power supply pin.
44	XOUT	O	Pin to which external 16.9344 MHz crystal oscillator is connected.
45	XIN	I	
46	XVSS	—	Crystal oscillator GND pin. Be sure to connect to 0V.
47	SBSY	O	Subcode block sync signal output pin.
48	EFLG	O	C1, C2, single and dual correction monitoring pin.
49	PW	O	Subcode P, Q, R, S, T, U and W output pin.
50	SFSY	O	Subcode frame sync signal output pin. Falls down when subcode enters standby.
51	SBCK	I	Subcode read clock input pin. Schmidt input. (Be sure to connected to 0V when not in use.)
52	FSX	O	Pin outputting the 7.35 kHz sync signal which is generated by dividing frequency of crystal oscillator.
53	WRQ	O	Subcode Q output standby output pin.
54	RWC	I	Read/write control input pin. Schmidt input.
55	SQOUT	O	Subcode Q output pin.
56	COIN	I	Command input pin from microprocessor.
57	$\overline{\text{CQCK}}$	I	Command input read clock or subcode read input clock from SQOUT pin
58	$\overline{\text{RES}}$	I	LC78622 reset input pin. Set this pin to L once when the main power is turned on.
59	TST11	O	Test signal output pin. Use this pin as open (normally L output).
60	16M	O	16.9344 MHz output pin.
61	4.2M	O	4.2336 MHz output pin.
62	TEST5	I	Test signal input pin with built-in pull-down resistor. Be sure to connect to 0V.
63	$\overline{\text{CS}}$	I	Chip select signal input pin with built-in pull-down resistor. Be sure to connect to 0V while it is not controlling.
64	TEST1	I	Test signal input pin without built-in pull-down resistor. Be sure to connect to 0V.

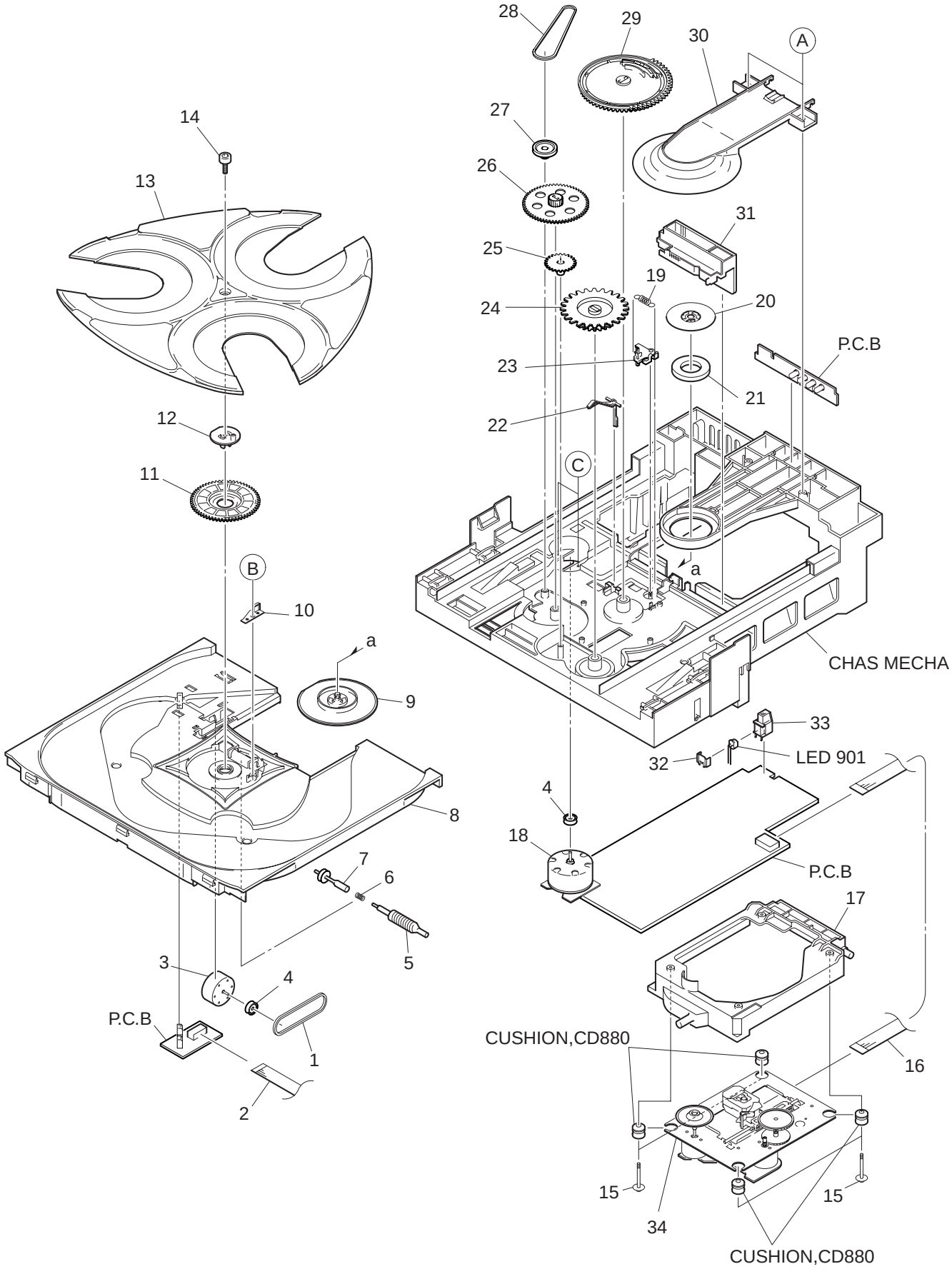
Note: The same potential must be applied to the respective power supply terminals. (VDD, VVDD, LVDD, RVDD, XVDD)

IC, LA9241ML

Pin No.	Pin Name	I/O	Description
1	FIN2	I	Pin to which external pickup photo diode is connected. RF signal is created by adding with the FIN1 pin signal. FE signal is created by subtracting from the FIN1 pin signal.
2	FIN1	I	Pin to which external pickup photo diode is connected.
3	E	I	Pin to which external pickup photo diode is connected. TE signal is created by subtracting from the F pin signal.
4	F	I	Pin to which external pickup photo diode is connected.
5	TB	I	DC component of the TE signal is input.
6	TE–	I	Pin to which external resistor setting the TE signal gain is connected between the TE pin.
7	TE	O	TE signal output pin.
8	TESI	I	TES “Track Error Sense” comparator input pin. TE signal is passed through a band-pass filter then input.
9	SCI	I	Shock detection signal input pin.
10	TH	I	Tracking gain time constant setting pin.
11	TA	O	TA amplifier output pin.
12	TD–	I	Pin to which external tracking phase compensation constants are connected between the TD and VR pins.
13	TD	I	Tracking phase compensation setting pin.
14	JP	I	Tracking jump signal (kick pulse) amplitude setting pin.
15	TO	O	Tracking control signal output pin.
16	FD	O	Focusing control signal output pin.
17	FD–	I	Pin to which external focusing phase compensation constants are connected between the FD and FA pins.
18	FA	I	Pin to which external focusing phase compensation constants are connected between the FD– and FA– pins.
19	FA–	I	Pin to which external focusing phase compensation constants are connected between the FA and FE pins.
20	FE	O	FE signal output pin.
21	FE–	I	Pin to which external FE signal gain setting resistor is connected between the FE pin.
22	PGND	—	Analog signal GND.
23	SP	—	No connection.
24	SP1	O	Single ended output of the CV+ and CV– pin input signal.
25	SPG	I	Pin to which external spindle gain setting resistor in 12 cm mode is connected.
26	SP–	I	Pin to which external spindle phase compensation constants are connected together with SPD pin.
27	SPD	O	Spindle control signal output pin.
28	SLEQ	I	Pin to which external sled phase compensation constants are connected.
29	SLD	O	Sled control signal output pin.
30, 31	SL–, SL+	I	Sled advance signal input pin from microprocessor.
32, 33	JP–, JP+	I	Tracking jump signal input pin from DSP.
34	TGL	I	Tracking gain control signal input from DSP. Low gain when TGL = H.
35	TOFF	I	Tracking off control signal input pin from DSP. Off when TOFF = H.

Pin No.	Pin Name	I/O	Description
36	TES	O	Pin from which TES signal is output to DSP.
37	HFL	O	“High Frequency Level” is used to judge whether the main beam position is on top of bit or on top of mirror.
38	SLOF	I	Sled servo off control input pin.
39, 40	CV–, CV+	I	CLV error signal input pin from DSP.
41	RFSH	O	RF output pin.
42	RFS–	I	RF gain setting and EFM signal 3T compensation constant setting pin together with RFSM pin.
43	SLC	O	“Slice Level Control” is the output pin which controls the RF signal data slice level by DSP.
44	SLI	I	Input pin which control the data slice level by the DSP.
45	DGND	—	Digital system GND.
46	FSC	O	Output pin to which external focus search smoothing capacitor is connected.
47	TBC	I	“Tracking Balance Control” EF balance variable range setting pin.
48	NC	—	No connection.
49	DEF	O	Disc defect detector output pin.
50	CLK	I	Reference clock input pin. 4.23 MHz of the DSP is input.
51	CL	I	Microprocessor command clock input pin.
52	DAT	I	Microprocessor command data input pin.
53	CE	I	Microprocessor command chip enable input pin.
54	DRF	O	“Detect RF” RF level detector output.
55	NC	I	No connection.
56	VCC2	—	Servo system and digital system Vcc pin.
57	REF1	—	Pin to which external bypass capacitor for reference voltage is connected.
58	VR	O	Reference voltage output pin.
59	LF2	I	Disc defect detector time constant setting pin.
60	PH1	I	Pin to which external capacitor for RF signal peak holding is connected.
61	BH1	I	Pin to which external capacitor for RF signal bottom holding is connected.
62	LDO	O	APC circuit output pin.
63	LDS	I	APC circuit input pin.
64	VCC1	—	RF system Vcc pin.

MECHANICAL EXPLODED VIEW 1/1



MECHANICAL PARTS LIST 1/1

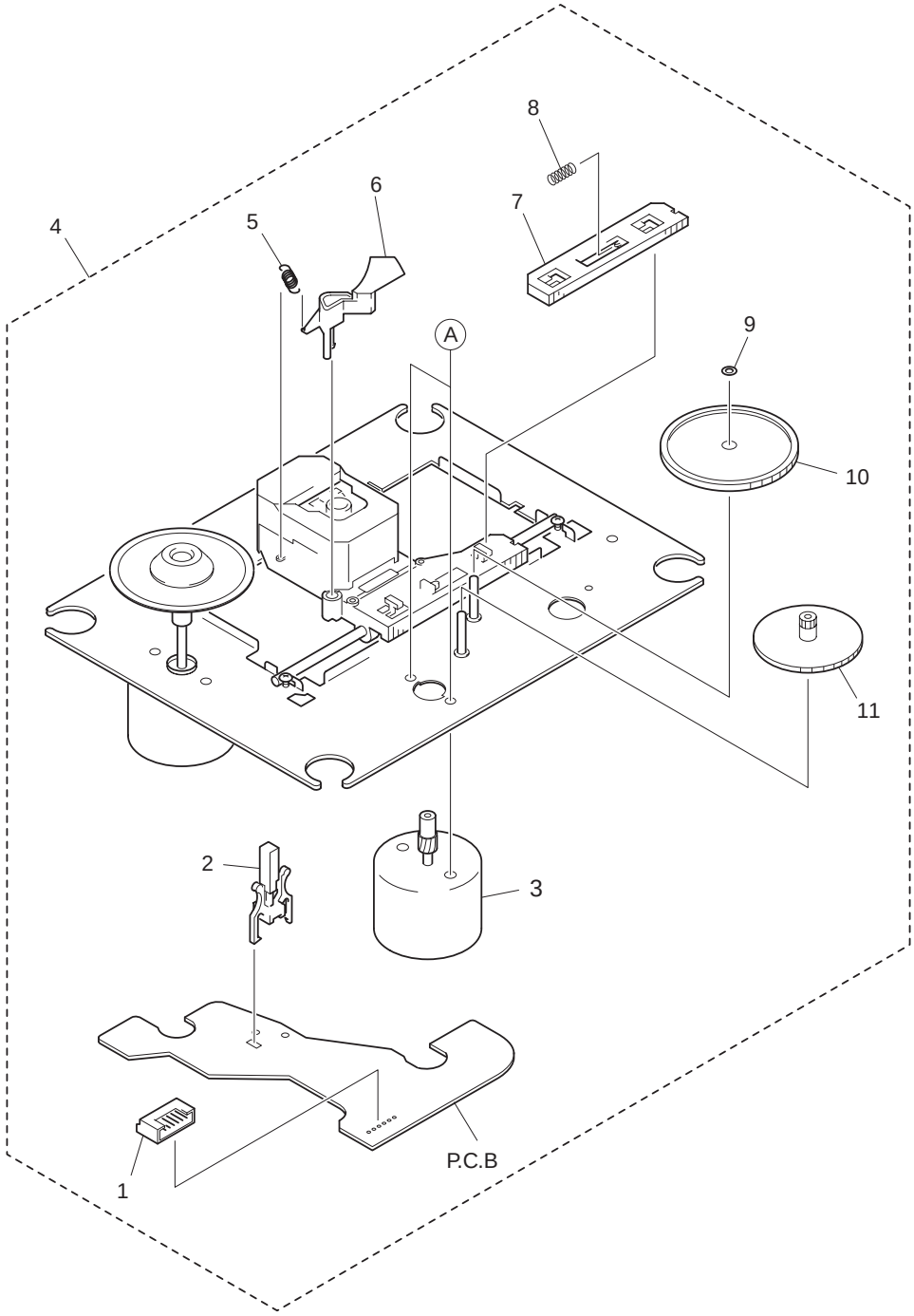
DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	84-ZG1-225-010		BELT,SQ1.0-63.3
2	84-ZG1-673-010		F-CABLE,5P 1.25 210MM BLACK N
3	87-045-364-010		MOTOR(BCH3B14)
4	84-ZG1-267-010		PULLEY,LOAD MO 8
5	84-ZG1-238-010		GEAR,WORM N
6	84-ZG1-248-010		SPR-C,WORM
7	84-ZG1-239-210		PULLY,WORM N
8	84-ZG1-008-210		TRAY,NO3
9	84-ZG1-243-210		HLDR,MAGNET N(J)
10	84-ZG1-259-010		SPR-P,WORM
11	84-ZG1-269-010		GEAR,MAIN TT 4
12	84-ZG1-224-010		LEVER,TT
13	84-ZG1-005-210		TURNTABLE,NO1(*)
14	81-ZG1-239-010		S-SCREW,TT
15	8A-ZG1-201-010		S-SCREW,MECH 880
16	85-NFT-611-110		FF-CABLE 16P-1.0
17	84-ZG1-299-210		HLDR,MECHA NO3
18	87-045-305-010		MOTOR, RF-500TB DC-5V (2MA)
19	84-ZG1-211-010		SPR-E CAM S
20	81-ZG1-255-110		PLATE,MAGNET MK2
21	83-ZG3-604-010		RING,MAG 2
22	83-ZG3-213-010		LVR,SW
23	84-ZG1-266-010		LEVER,CAN 8
24	84-ZG1-205-210		GEAR,TRAY (*)
25	81-ZG1-291-110		GEAR,TRAY RELAY NO3
26	84-ZG1-274-010		GEAR,RELAY 8
27	84-ZG1-207-010		PULLEY,RELAY
28	84-ZG1-209-010		BELT,SQ1.8-117.7
29	84-ZG1-215-410		GEAR,MAIN CAM BLU
30	84-ZG1-011-010		REFLECTOR,CD
31	84-ZG1-216-310		SLIDE,MECHA CAM YEL
32	84-ZG1-261-010		LID,OPTICAL
33	84-ZG1-244-310		CABI,OPTICAL
34	M8-ZZK-C90-070		KSM-880CAB
A	87-067-703-010		TAPPING SCREW, BVT2+3-10
B	87-067-981-010		BVT2+3-6 BLK
C	87-251-070-410		U+2.6-3

COLOR NAME TABLE

Basic color symbol	Color	Basic color symbol	Color	Basic color symbol	Color
B	Black	C	Cream	D	Orange
G	Green	H	Gray	L	Blue
LT	Transparent Blue	N	Gold	P	Pink
R	Red	S	Silver	ST	Titan Silver
T	Brown	V	Violet	W	White
WT	Transparent White	Y	Yellow	YT	Transparent Yellow
LM	Metallic Blue	LL	Light Blue	GT	Transparent Green
LD	Dark Blue	DT	Transparent Orange		

CD MECHANISM EXPLODED VIEW 1/1



CD MECHANISM PARTS LIST 1/1

DESCRIPTIONで判断できない物は "REFERENCE NAME LIST" を参照してください。
If can't understand for Description please kindly refer to "REFERENCE NAME LIST".

REF. NO	PART NO.	KANRI NO.	DESCRIPTION
1	91-564-722-110		CONN,PIN 6P
2	91-572-085-110		LEAF SWITCH
3	9X-264-655-010		SL MOTORR ASSY
4	M8-ZZK-C90-070		KSM-880CAB
5	92-647-416-020		SPRING EXTENSION
6	92-647-595-020		SHUTTER B
7	92-647-732-010		NS SLIDE RACK
8	92-647-742-010		SPRING COMPRESSION
9	93-321-813-110		POLI WASHER
10	92-647-407-010		GEAR A
11	92-647-408-020		GEAR B
A	93-713-786-510		SCREW,+P2-3

REFERENCE NAME LIST

ELECTRICAL SECTION

DESCRIPTION	REFERENCE NAME
ANT	ANTENNAS
C-	CHIP
C-CAP	CAP, CHIP
C-CAP TN	CAP, CHIP TANTALUM
C-COIL	COIL, CHIP
C-DI	DIODE, CHIP
C-DIODE	DIODE, CHIP
C-FET	FET, CHIP
C-FOTR	FILTER, CHIP
C-JACK	JACK, CHIP
C-LED	LED, CHIP
C-RES	RES, CHIP
C-SFR	SFR, CHIP
C-SLIDE SW	SLIDE SWITCH, CHIP
C-SW	SWITCH, CHIP
C-TR	TRANSISTOR, CHIP
C-VR	VOLUME, CHIP
C-ZENER	ZENER, CHIP
CAP, CER	CAP, CERA-SOL
CAP, E	CAP, ELECT
CAP, M/F	CAP, FILM
CAP, TC	CAP, CERA-SOL
CAP, TC-U	CAP, CERA-SOL SS
CAP, TN	CAP, TANTALUM
CERA FIL	FILTER, CERAMIC
CF	FILTER, CERAMIC
DL	DELAY LINE
E/CAP	CAP, ELECT
FILT	FILTER
FLTR	FILTER
FUSE RES	RES, FUSE
MOT	MOTOR
P-DIODE	PHOTO DIODE
P-SNSR	PHOTO SENSER
P-TR	PHOTO TRANSISTOR
POLY VARI	VARIABLE CAPACITOR
PPCAP	CAP, PP
PT	POWER TRANSFORMER
PTR, RES	PTR, MELF
RC	REMOTE CONTROLLER
RES NF	RES, NON-FLAMMABLE
RESO	RESONATOR
SHLD	SHIELD
SOL	SOLENOID
SPKR	SPEAKER
SW, LVR	SWITCH, LEVER
SW, RTRY	SWITCH, ROTARY
SW, SL	SWITCH, SLIDE
TC CAP	CAP, CERA-SOL
THMS	THERMISTOR
TR	TRANSISTOR
TRIMMER	CAP, TRIMMER
TUN-CAP	VARIABLE CAPACITOR
VIB, CER	RESONATOR, CERAMIC
VIB, XTAL	RESONATOR, CRYSTAL
VR	VOLUME
ZENER	DIODE, ZENER

MECHANICAL SECTION

DESCRIPTION	REFERENCE NAME
ADHESHIVE	SHEET ADHESHIVE
AZ	AZIMUTH
BAR-ANT	BAR-ANTENNA
BAT	BATTERY
BATT	BATTERY
BRG	BEARING
BTN	BUTTON
CAB	CABINET
CASS	CASSETTE
CHAS	CHASSIS
CLR	COLLAR
CONT	CONTROL
CRSR	CURSOR
CU	CUSHION
CUSH	CUSHION
DIR	DIRECTION
DUBB	DUBBING
FL	FRONT LOADING
FLY-WHL	FLYWHEEL
FR	FRONT
FUN	FUNCTION
G-CU	G-CUSHION
HDL	HANDOL
HIMERON	CLOTH
HINGE, BAT	HINGE, BATTERY
HLDR	HOLDER
HT-SINK	HEAT SINK
IB	INSTRUCTION BOOKLET
IDLE	IDLER
IND, L-R	INDICATOR, L-R
KEY, CONT	KEY, CONTROL
KEY, PRGM	KEY, PROGRAM
KNOB, SL	KNOB, SLIDE
LBL	LABEL
LID, BATT	LID, BATTERY
LID, CASS	LID, CASSETTE
LVR	LEVER
P-SP	P-SPRING
PANEL, CONT	PANEL, CONTROL
PANEL, FR	PANEL, FRONT
PRGM	PROGRAM
PULLY, LOAD MO	PULLY, LOAD MOTOR
RBN	RIBBON
S-	SPECIAL
SEG	SEGMENT
SH	SHEET
SHLD-SH	SHIELD-SHEET
SL	SLIDE
SP	SPRING
SP-SCREW	SPECIAL-SCREW
SPACER, BAT	SPACER, BATTERY
SPR	SPRING
SPR-P	P-SPRING
SPR-PC-PUSH	P-SPRING, C-PUSH
T-SP	T-SPRING
TERM	TERMINAL
TRIG	TRIGGER
TUN	TUNING
VOL	VOLUME
W	WASHER
WHL	WHEEL
WORM-WHL	WORM-WHEEL

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0251431
Printed in Singapore